



REPORT OF THE
Hydro-Electric Power
Commission
OF ONTARIO
1930

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MR. WILLS MACLACHLAN

Wills Maclachlan



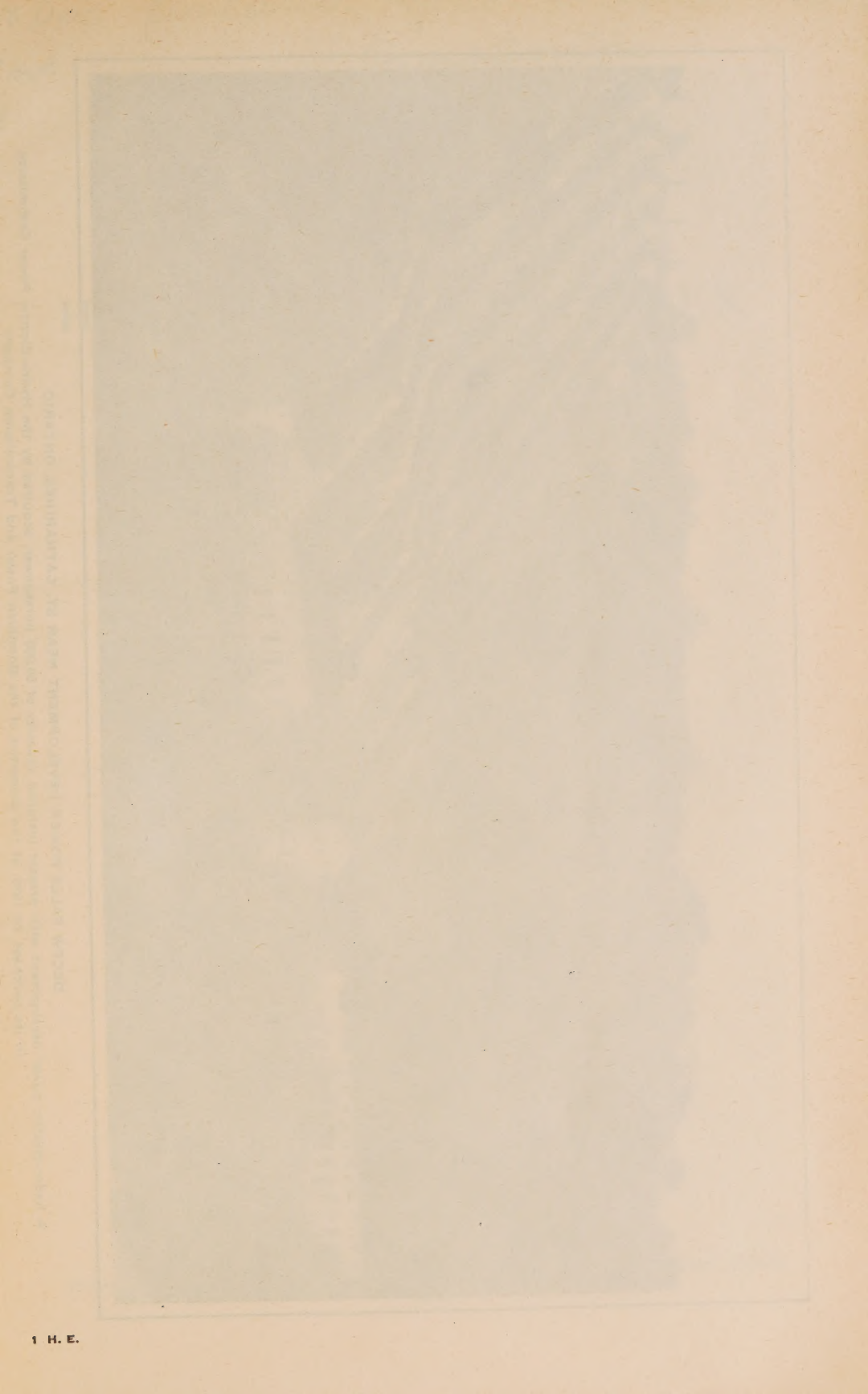
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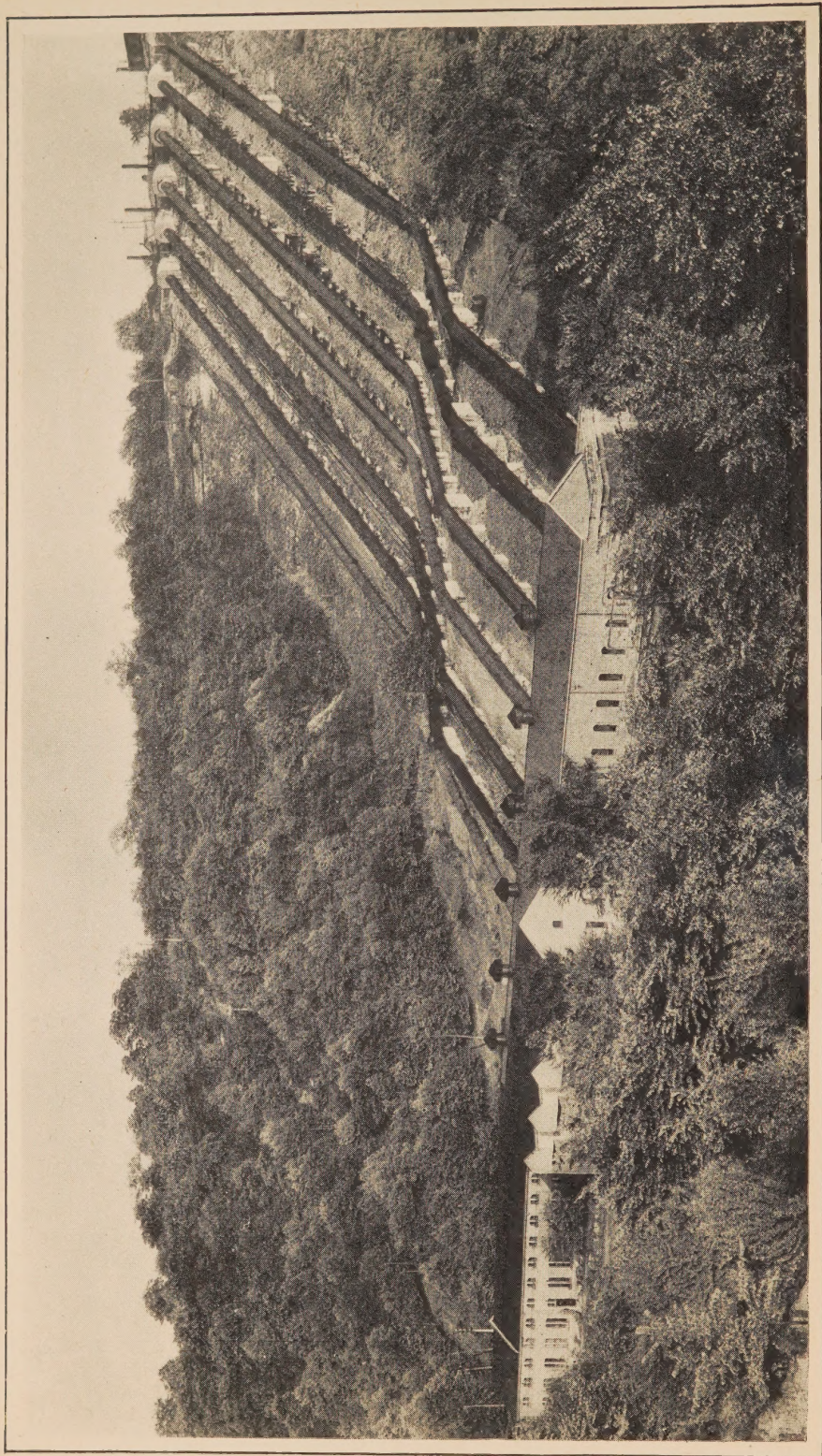
The Estate of the Late
Wills Maclachlan, '06



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DECEW FALLS POWER DEVELOPMENT NEAR ST. CATHARINES, ONTARIO

A hydro-electric power development with present installed capacity of 50,000 horsepower, acquired by the Hydro-Electric Power Commission in its purchase, in 1930, of the properties of the Dominion Power and Transmission Company

Gov Doc Ontario. Hydro-Electric Power
Ont. Commission
H

(TWENTY-THIRD) ANNUAL REPORT

OF THE

HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



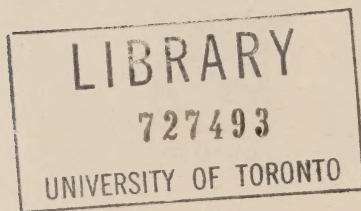
TORONTO

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1931

THE
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

CHARLES A. MAGRATH.....*Chairman*
HON. J. R. COOKE, M.L.A.....*Commissioner*
C. ALFRED MAGUIRE.....*Commissioner*
W. W. POPE.....*Secretary*
F. A. GABY, B.A.Sc., D.Sc.....*Chief Engineer*



To His Honour THE HONOURABLE WILLIAM D. ROSS,
Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Twenty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1930.

This Report covers all of the Commission's activities and also embodies the financial statements for the calendar year 1930, of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

Dealing, as it does, with a multiplicity of activities relating to several electrical systems obtaining power from thirty-seven hydro-electrical plants operated by the Commission, supplemented by power purchased from other sources, and recording financial and other data relating to the individual local municipal electric utilities, the Annual Report presents a large amount of statistical information, much of which must, of necessity, be of a summary character.

The financial statements, the statistical data and the general information given, however, are so arranged and presented as to give a comprehensive survey of the Commission's operations. Not only does the Report record the progress made during the past year, but it gives, in addition, certain cumulative results for the various periods during which operation has been maintained in the respective municipalities.

At the end of the fiscal year the number of municipalities served in Ontario by the Commission was 668. This number included 26 cities, 94 towns, 251 villages and police villages and 297 townships. With the exception of 12 suburban sections of townships known as voted areas, the townships and 79 of the smaller villages are served as parts of 160 rural power districts.

During the year, the Commission purchased the properties of the Dominion Power and Transmission Company, Limited, for the sum of \$21,000,000. The capacity of the generating plants and contracts for power purchased amount to 83,900 horsepower. Power is delivered to a large number of municipalities and industrial consumers in the territory extending from Port Colborne and St. Catharines to Hamilton, Brantford and Oakville.

Constructional Activities

The chief constructional activities of the Commission during the past year comprised the putting into service of the tenth unit at Queenston generating station on the Niagara river, the virtual completion of the Alexander power development on the Nipigon river, substantial progress of the Chats Falls development on the Ottawa river, the completion of the second 220,000-volt circuit on separate towers of the transmission line conveying Gatineau power from the Ottawa river to Leaside, Toronto, the addition of transformer capacity to many transforming and distributing stations, and the construction of no less than 1,890 additional miles of primary lines in rural power districts.

The tenth generator at Queenston came into service in July, 1930, and the temporary bulkheads and walls at the north end of the generating station were replaced by permanent structures. It is interesting to note that the hydraulic equipment and the general design of the plant are essentially the same for the tenth as for the first unit. No important advances have taken place in plant design for hydraulic units of the head and capacity of those at Queenston, and therefore the original portions of the plant, although in service for nine years, are not in any degree obsolete.

The virtual completion of the Alexander power development in October and the placing in service of the first generating unit, followed a season in which construction work was carried on very rapidly in order to take full advantage of the favourable weather during the summer months for the building of the main dam, which is a semi-hydraulic earth fill. This is the first dam of this type built by the Commission. The growth in load in the Thunder Bay system has been striking. It will be remembered that not many years ago doubt was expressed as to the possibility of the then partial development at Cameron Falls finding sufficient load to justify its construction. The load demands have been such as to necessitate the completion of the Cameron Falls development and the addition of the new Alexander development. Further studies and surveys are being made of the undeveloped head on the Nipigon river between Cameron Falls and lake Nipigon.

Rapid progress is being made in the design and construction of the new development at Chats Falls on the Ottawa river. When completed, 192,000 horsepower will be available at this site for the Commission's requirements.

The second link between the Gatineau river plants and the Niagara system at Leaside-Toronto has been made by the completion of the second 220,000-volt circuit. This double-circuit line now in operation, provides sufficient transmission capacity to deliver all the power required at present from the east, for the Niagara system. Additional equipment at Toronto-Leaside transformer station has been installed, including the third and fourth banks of 15,000-kv-a. transformers. A 220,000-volt transformer station is being constructed at Chats Falls in connection with the development at that site.

The regular growth in load necessitates each year a substantial increase in the transformer capacity in the various systems and the past year has been no exception. Seven 10,000-kv-a. transformers were purchased to replace 5,000-

kv-a. units in some of the 110,000-volt stations of the Niagara system. In the Georgian Bay system a 5,000-kv-a. frequency-changer set was installed at Hanover to permit further interchange of power between this and the Niagara system.

Operating Conditions

The customary high standard in the operation of the systems has been maintained throughout the year and the general service has been satisfactory and free from major failures of equipment. The extensive interconnection of transmission networks has continued to exert its beneficial effects in the economy of operation and continuity of service. Further progress has been made in the advantageous programme of interconnection and consolidation.

Notwithstanding the prevailing industrial depression, the total load supplied by the Commission with respect to the territory reported upon in the last year's Report, has increased. In addition, there is recorded for 1930 a further increase in the loads supplied as a result of the inclusion in this year's Report of the loads of the undertakings and companies purchased from the Dominion Power and Transmission Company, Limited, and the Bruce County service. It is appropriate to recall the fact that the 1929 increase in load over the previous year's total was exceptionally large.

During the past year the output of the Commission's generating plants in the central and eastern parts of the Province was curtailed due to deficient stream flow resulting from subnormal precipitation. However, as a result of the interconnections made during recent years and the provisions for purchased power no restrictions of service were necessary in the Georgian Bay and Eastern Ontario systems. In the Nipissing district of the Northern Ontario system where interconnection with other districts is not yet provided, some restriction of load was unavoidable during December, 1929, and January, 1930, until a thaw gave relief. In the Sudbury district a flood in June caused a brief restriction of service. With these relatively minor exceptions, ample supplies of power have been continuously available in all systems.

COST OF ELECTRICAL SERVICE FURNISHED BY THE COMMISSION

The function of the Commission is not only to use its best endeavours to provide for the people of Ontario an adequate and reliable supply of electrical energy, but also to ensure that the cost of that electrical energy to the consumers shall be the minimum consistent with the financial stability of the enterprise. The success that has been attained in the accomplishment of the latter object may be appreciated by a careful study of the statistical data relating to the supply of electrical energy to consumers as given in Statement "D" and the actual rates to consumers as presented in Statement "E" in conjunction with the various financial statements of the Report.

GROWTH IN LOAD

The following tabulation shows the growth in load in the various systems during the year.

DISTRIBUTION OF POWER TO SYSTEMS

20-MINUTE PEAK HORSEPOWER
SYSTEM COINCIDENT PEAKS

System	October 1929	December 1929	October 1930	December 1930
Niagara system.....	949,732	970,509	1,000,670	1,028,400
Dominion Power & Trans. system....	.....	.....	58,579	61,528
Georgian Bay system.....	22,118	22,961	23,355	25,591
Eastern Ontario system*.....	82,299	90,800	88,678	93,560
Thunder Bay system.....	77,117	64,588	73,968	61,300
Northern Ontario system:				
Nipissing district.....	3,599	3,492	3,745	3,654
Sudbury district.....	10,657	11,394	12,935	10,724
Patricia district.....	.....	.....	1,582	1,521
Total.....	<u>1,145,522</u>	<u>1,163,744</u>	<u>1,263,512</u>	<u>1,286,278</u>

*"Eastern Ontario System" includes Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts.

FINANCIAL SUMMARIES

It will be observed that the financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals chiefly with the operations of the Commission in the generation, transformation and transmission of electrical energy to the co-operating municipalities; and a division—Section X—which deals with the various operations of the municipal electric utilities in the localized distribution of electrical energy to consumers. In Section IX, "Rural Operating" reports are also given, which summarize the results of the local distribution of rural electrical service by the Commission to the individual consumers in rural power districts. This work is performed by the Commission on behalf of the respective townships co-operating to provide rural service.

The cumulative results of the operation of the several systems of the Commission as set forth in this Report demonstrate a sound financial condition.

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is \$260,593,779.36, and the investment of the municipalities in distributing systems and other assets is \$99,054,262.47, making in power and hydro-electric railway undertakings a total investment of \$359,648,041.83.

CAPITAL INVESTMENT

The following statement shows the capital invested in the respective systems and municipal undertakings:

Niagara system.....	\$176,172,587.76
Dominion Power & Transmission Co. and Subsidiaries.....	21,489,434.83
Chats Falls development.....	2,137,230.18
Georgian Bay system.....	7,940,666.96
Eastern Ontario system (including Madawaska, Ottawa and Nipissing districts).....	20,917,182.90
Thunder Bay system.....	17,645,796.31
Northern Ontario system—(Sudbury and Patricia districts).....	3,297,543.10
Hydro-electric railways.....	7,340,565.05
Office and service buildings, construction plant, inventories, etc.....	3,652,772.27
	<hr/>
	\$260,593,779.36
Municipalities' distributing systems and other assets (exclusive of \$17,346,372.44 of municipal sinking fund equity in H.E.P.C. system)—all systems.....	99,054,262.47
	<hr/>
	<u>\$359,648,041.83</u>

REVENUE OF COMMISSION

The Commission collected from the municipal utilities and other customers, a total sum of \$28,555,998.47. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of \$1,262,456.60.

The following statement summarizes the Commission's collections from municipal electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipal electric utilities and other power customers.....	\$28,555,998.47
Appropriated as follows:	
Operation, maintenance, administration, interest and other current expenses.....	\$19,772,039.08
Reserves for sinking fund; renewals, contingencies and obsolescence provided in the year.....	7,521,502.79
	<hr/>
	27,293,541.87
Net surplus credited to municipalities under cost contracts.....	<hr/>
	\$1,262,456.60

NOTE.—The above figures do not include the revenue from the operation of the undertakings and companies which were acquired by the Commission from the Dominion Power and Transmission Company, Limited, as from January 1st, 1930. From this date the Commission has continued the operation thereof under the various company franchises, and a separate revenue and expense statement is shown for these.

RURAL ELECTRICAL SERVICE

During the past few years very substantial progress has been made in Ontario in the field of rural electrification. Practically all rural electrical service is now given through rural power districts which are operated directly by the Commission. There is now rather more than \$12,665,000 invested in the rural power district systems established by the Commission. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or some \$6,300,000. A total of 6,726 miles of transmission lines have been constructed to date, of

which 1,891 miles were constructed during the past year, a mileage which exceeds that constructed in any former year. There are now more than 46,000 customers supplied in the rural power districts.

RURAL POWER DISTRICTS—OPERATIONS FOR YEAR 1930

	Niagara system	Georgian Bay system	Eastern Ontario system	Totals
	\$ c.	\$ c.	\$ c.	\$ c.
Cost of power as provided to be paid under Power Commission Act.....	615,089.29	48,685.64	97,793.94	761,568.87
Cost of operation, maintenance and adminis- tration.....	408,419.77	23,704.25	66,035.16	498,159.18
Interest.....	186,962.86	14,705.71	31,997.23	233,665.80
Renewals.....	167,463.56	11,844.29	27,611.10	206,918.95
Obsolescence and contingencies.....	83,731.78	11,844.29	13,805.55	109,381.62
Sinking fund.....	44,370.01	3,368.40	7,390.49	55,128.90
Total expenses.....	1,506,037.27	114,152.58	244,633.47	1,864,823.32
Revenue from customers.....	1,628,018.20	109,933.71	260,299.70	1,998,251.61
Surplus.....	121,980.93	.....	15,666.23	137,647.16
Deficit.....	.....	4,218.87	.....	4,218.87
Net surplus.....	.....	.....	.....	133,428.29

MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$30,241,820.19
Cost of power.....	\$17,323,077.97
Operation, maintenance and administration.....	5,394,779.96
Debenture charges and interest.....	4,028,276.07
Depreciation.....	1,574,991.68
Total.....	28,341,125.68
Surplus.....	\$1,900,694.51

RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to \$103,857,683.12, made up as follows:

Niagara system.....	\$43,069,032.12
Georgian Bay system.....	1,889,781.64
Eastern Ontario system.....	4,123,718.36
Thunder Bay system.....	2,165,992.31
Northern Ontario system.....	10,582.50
Bonnechere storage.....	19,234.16
Service buildings and equipment.....	570,210.27
Hydro-electric railways.....	102,951.70
Insurance, workmen's compensation and staff pension insurance.....	2,993,346.59
Total reserves of the Commission.....	\$54,944,849.65
Total reserves of municipal electric utilities.....	48,912,833.47
Total Commission and municipal reserves.....	\$103,857,683.12

The consolidated balance sheet of the municipal electric utilities, on page 261, shows a total cash balance of \$2,722,250.12, and bonds and other investments of \$1,909,439.11. The total surplus in the municipal books now amounts to \$34,452,790.22 in addition to depreciation and sundry other reserves aggregating \$14,460,043.25.

The following is a brief summary of the principal operations relating to the several systems of the Commission:

NIAGARA SYSTEM

The Niagara system embraces all the territory lying between Niagara Falls, Hamilton, and Toronto on the east, and Windsor, Sarnia, and Goderich on the west, served with electrical energy generated at plants on the Niagara river, supplemented with purchased power transmitted from the Gatineau river.

There has been a steady increase in the number of consumers in this district and also in the load supplied by the Commission to the municipalities. Power supplied to the Commission by the Gatineau Power Company is received by the Commission at the interprovincial boundary on the Ottawa river and is transmitted over two 220,000-volt, steel-tower transmission lines to Leaside. The construction of the second circuit, on separate steel towers, was completed during the year and put into operation in order to assist in carrying the heavy winter load. A third circuit line from Leaside to Chats Falls is under construction.

The arrangements already made will ensure for this system an adequate supply of power for a number of years ahead. In addition to the contracts for Gatineau river power, the Commission has entered into an agreement with the Chats Falls Power Company for the joint construction of a plant at Chats Falls on the Ottawa river having a capacity of 216,000 horsepower, the Commission is to purchase the Company's half of this power for a term of years. Power amounting to 250,000 horsepower developed on the St. Lawrence river will also be purchased from the Beauharnois Light, Heat and Power Company, and 125,000 horsepower to be delivered to the Commission as required from a plant on the Lievre River is contracted for from the James MacLaren Company, Limited.

The tenth unit in the Queenston generating plant, which was arranged for in 1928 was placed in operation on July 4, 1930, and is available to assist in taking care of the winter load for 1930-31.

The purchase of undertakings and companies from the Dominion Power and Transmission Company, Limited, has already been referred to. Since their acquisition by the Commission the operation of these properties has been continued by the same staff and on the same basis. The co-ordination of this system with the Niagara system will be carried out as may be found to be to the mutual advantage of both.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Niagara system is \$176,172,587.76, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate

\$43,069,032.12. This is exclusive of the undertakings and companies purchased from the Dominion Power and Transmission Company, Limited, for which separate statements of assets and liabilities, and operations are presented.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was \$1,628,018.20, and the total cost of supplying the service was \$1,506,037.27, leaving a balance of \$121,980.93, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the various municipalities of the Niagara system, the actual cost of power during the year was \$827,049.01 less than the total amount collected at the interim rates, and this sum has been credited to the Municipal Utilities. The total net surplus for the year from the operation of the various municipal electric utilities was \$1,215,442.02, after providing \$1,342,130.60 for depreciation and \$1,643,661.24 for the retirement of instalment and sinking fund debentures.

Nine municipal utilities had small deficits upon the year's operations, aggregating \$1,886.09, whereas the total combined surplus of the other municipal electric utilities served by this system was \$2,559,458.71. The total revenue of the municipal electric utilities served by this system was \$24,831,168.71, an increase of \$655,292.70.

GEORGIAN BAY SYSTEM

The Georgian Bay system comprises the area which includes the counties of Bruce, Grey, Dufferin, and Simcoe, and the northern portions of Huron, Wellington, and Ontario, also a large portion of the district of Muskoka, all of which areas are adjacent to Georgian Bay.

Electrical energy is obtained from two developments on the Severn river, one on the Beaver river, and three on the Muskoka river, also from two frequency changer stations tied in with the Niagara system. The total capacity of this system exceeds 30,000 horsepower and all of the developments are tied together through a network of transmission lines. The 5,000-kv-a. frequency-changer set situated at Hanover was completed and placed in operation during the year. Power is delivered from the Niagara system at Kitchener over a 110,000-volt transmission line.

During the year, negotiations were completed with the Public Utilities Consolidated Corporation of Minneapolis, Minnesota, for the purchase of what is known as the "Foshay" interests in Bruce county, covering the Saugeen Electric Light and Power Company and the Walkerton Electric Light and Power Company. The Commission on behalf of the municipalities has assumed control and they now form part of the Georgian Bay system.

The village of Windermere entered into an agreement for a supply of power on the standard cost basis.

Notwithstanding the prevailing industrial depression, there was this year a considerable increase in the power sold throughout this system, due in part to a marked expansion in the rural districts.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Georgian Bay system is \$7,940,666.96, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate \$1,889,476.03.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was \$109,933.71, and the total cost of supplying the service was \$114,152.58, leaving a balance of \$4,218.87, which has been charged to the districts in this system.

With respect to the electric utilities of the various municipalities of the Georgian Bay system, the actual cost of power during the year was \$20,805.38 less than the total amount collected at the interim rates, and this has been credited to the municipal utilities. The total net surplus for the year from the operation of the various municipal electric utilities was \$40,419.66, after providing \$54,452.40 for depreciation and \$54,212.34 for the retirement of instalment and sinking fund debentures. Twelve municipal utilities had small deficits upon the year's operations, aggregating \$13,337.99, whereas the total combined surplus of the other electric utilities served by this system was \$53,757.65. The total revenue of the municipal electric utilities served by this system was \$1,051,101.54, an increase of \$6,465.06.

EASTERN ONTARIO SYSTEM

This system now serves the whole of that portion of Ontario east of the areas served by the Georgian Bay and Niagara systems. Consolidation of the Central Ontario and Trent systems with the St. Lawrence, Rideau and Ottawa systems, making up the Eastern Ontario system, was undertaken because of the necessary interchange of power supply and for other reasons which made it impracticable longer to operate these systems separately; final details for consolidation were completed during the year. The properties of the Galetta Electric Light & Power Company, and the Calabogie Power Company, known as the Madawaska system, have also been added to form part of this system.

During the year the Commission completed the purchase of the Beach Rural Electric System lines serving rural customers in the townships of Matilda, Williamsburg, Mountain, Winchester and South Gower, and with this purchase agreement an arrangement was made for the purchase of a supply of 500 horsepower from the Beach Estate at Iroquois, which power is consolidated with the Eastern Ontario system supplies and is used to supply the rural lines purchased from the Beach Rural Electric System, Limited.

The Commission disposed of the local distribution systems, forming part of the Central Ontario district properties in the towns of Brighton, Port Hope and Napanee. These properties were purchased by the respective municipalities and agreements were entered into for a supply of power on the standard cost basis. The municipalities of Madoc and Stirling whose fixed rate contracts for power expired December 31, 1929, also entered into agreements for power supply on the standard cost basis. The village of Cardinal also entered into an agreement for a supply of power from this system during the year.

The Ottawa district embraces the city of Ottawa, the village of Richmond, and the Nepean rural power district. The city of Ottawa "Hydro" system has

continued the steady growth experienced in other years. There has also been much expansion in the rural district. During the year the city has received an augmented supply of power from the Commission through the new high-tension station constructed jointly by the Provincial Commission and the Ottawa Hydro Commission. This power is taken at 110,000 volts from the supply made available under the contract with the Gatineau Power Company.

Reflecting the general industrial depression the load requirements of the Eastern Ontario system were slightly lower than was anticipated. The normal yearly increment of 6,000 horsepower under the contract with the Gatineau Power Company, together with power generated by the Commission has provided ample power for all the customers of this system.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Eastern Ontario system is \$20,917,182.90, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate \$4,123,718.36.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was \$260,299.70, and the total cost of supplying the service was \$244,633.47, leaving a balance of \$15,666.23, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the various municipalities of the Eastern Ontario system, the actual cost of power during the year was \$58,783.30 less than the total amount collected at the interim rates and this has been credited to the municipal utilities. The total net surplus for the year from the operation of the various municipal electric utilities was \$373,651.95, after providing \$143,712.83 for depreciation and \$108,377.27 for the retirement of instalment and sinking fund debentures. Three municipal utilities had small deficits upon the year's operations, aggregating \$1,727.35, whereas the total combined surplus of the other electric utilities served by this system was \$375,379.30. The total revenue of the municipal electric utilities served by this system was \$2,887,135.45, an increase of \$385,102.53.

THUNDER BAY SYSTEM

The Thunder Bay system comprises that portion of the district of Thunder Bay adjacent to Lake Superior, and includes the lake-head cities of Port Arthur and Fort William, and the village of Nipigon. In addition to supplying electrical service in the three municipalities, power is supplied chiefly for grain elevators and pulp and paper mills. Due to industrial depression which has largely affected these two industries this system has not made as good a showing as it would have done had trade conditions been normal. In spite of this handicap, however, the showing for the year has been satisfactory.

The first unit of the new Alexander development, situated one and one-half miles below Cameron Falls, was placed in operation for the first time during the year, and the entire development is now about 98 per cent complete. As soon as the other two units are completed and placed in operation an additional 54,000 horsepower will be made available, which, together with the Cameron

Falls development, will make available a total capacity of 129,000 horsepower for this system.

The Commission has, in the Thunder Bay system, a total investment of \$17,645,796.31, and accumulated reserves for renewals, contingencies, and sinking fund aggregate \$2,165,992.31.

The total revenue collected by the Commission for power provided for the municipalities and sold to private companies connected to this system was \$1,420,236.89, which exceeded the cost of power supplied by \$2,665.87, which sum has been credited to the three municipalities operating under cost contracts in this district. The total revenue of the municipal electric utilities in this system was \$1,472,414.49. The three municipalities served by this system operated with a net surplus of \$271,180.88, after providing depreciation to the extent of \$34,695.85 and \$21,810.77 for the retirement of debentures.

NORTHERN ONTARIO SYSTEM

In this system are grouped three districts, at present independent, which serve portions of northern Ontario. The Nipissing district, formerly known as the Nipissing system, has been operated by the Commission for a number of years; the Sudbury district was formerly served by the Wahnapiatae Power Company recently acquired by the Commission, and the Patricia district is a new district recently established.

NIPISSING DISTRICT

This district includes the city of North Bay, the town of Powassan, and the villages of Callander and Nipissing, all of which lie immediately east of lake Nipissing. Power is obtained from three hydro-electric developments on the South river, namely, Nipissing, Bingham Chute and Elliott Chute.

SUDBURY DISTRICT

This district comprises the southern portions of the district of Algoma, Sudbury, and Nipissing, and is at present supplied with power from three developments on the Wahnapiatae river, recently purchased by the Commission from the Wahnapiatae Power Company.

A special investigation was made covering the delivery of a large block of power to this district for the mining industry, and a contract was finally executed between the Ontario Power Service Corporation and the Commission, covering a supply of 100,000 horsepower from a development at Abitibi Canyon on the Abitibi river about fifty miles north of Cochrane. The first delivery of this power will be made during the latter part of next year.

PATRICIA DISTRICT

Power is served from a development at Ear Falls at the foot of Lac Seul, the present capacity of which is 5,000 horsepower. Power was delivered for the first time during the year to The Howey Gold Mines Limited, which is the only customer in this district at the present time, but a large block of power is available for any mining or other industry desiring same, and it is expected that this development will prove to be of great service to the district.

THE ANNUAL REPORT

The Table of Contents, pages xxi and xxii, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 6 to 55, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the increase in the loads on the various systems. Tables are also presented showing the amounts of power taken by the various municipalities during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 64 to 79. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid to this work have been of value to agricultural activities, and have assisted the Commission to extend transmission lines to many areas.

In Section IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About three-fifths of the Report is devoted to statistical, financial data which are presented in two Sections, IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on page 137 to 141, to which special reference should be made.

Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 255-257; and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 366 to 369.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements descriptive of the operations of the Commission in various branches of its work are suitably placed throughout the Report in order that the citizens of the Province may be kept fully informed upon the working-out of the Commission's policies.

In conclusion, I should like to refer to the retirement from the Chairmanship of the Commission of Mr. Charles A. Magrath.

As may be recalled, Mr. Magrath was appointed to the Chairmanship on September 12, 1925, and his retirement became effective on February 6, 1931.

During his tenure of office, Mr. Magrath in devoting himself to the general administrative work of the Commission gave special attention to strengthening the Commission's position with respect to its financial reserves, but perhaps the outstanding effort which he put forth was in connection with the provision for future supplies of electrical energy to meet the needs of Ontario municipalities. All sources of possible supply were reviewed. The production of additional hydro-electric power from water powers owned by the Province was most carefully considered and furthered wherever economically possible; definite attention was given to the desirability or otherwise of developing steam-electric power, and the possibilities of purchasing power in large blocks to be supplied from sites owned or controlled by private organizations were examined.

There are two main sources of power from international waters in which the Province possesses a definite but not a sole interest—the Niagara and the St. Lawrence rivers, and there is also the inter-provincial Ottawa river. Mr. Magrath's experience in connection with matters before the International Joint Commission acquainted him with the fact that programmes for the development or utilization of international waters have sometimes had to proceed much more slowly than might superficially have been expected from preliminary favourable circumstances. To the solving of problems arising in connection with efforts to expedite development of these power sources, Mr. Magrath brought special experience.

For more than ten years the problem of the development of the St. Lawrence river for navigation and power has been the subject of special investigation and effort by the two Federal Governments concerned, but as yet no plan of development has been finally determined upon and, consequently, the Commission has never received sufficient authority to enable it to proceed with the development of Ontario's share of the St. Lawrence river power. Moreover, the Commission had to reckon with the fact that the evidence of engineers has been that from five to eight years would be required to complete such a development as the St. Lawrence. Consequently, even were the St. Lawrence development commenced, constructional work and preliminaries incident thereto might occupy up to eight years before the Hydro-Electric Power Commission could reasonably hope to obtain its full share of St. Lawrence power, and therefore no hope for an early supply of power from this source could be entertained.

With respect to power at Niagara: In 1926, a Special International Niagara Board was appointed to determine how the erosion of Niagara Falls could be arrested, how the preservation of their scenic beauty could best be effected, and what, if any, waters additional to those allotted under the Boundary Waters Treaty of 1909-10 could be diverted either temporarily or permanently for further power development. Consequent upon the Report which this Board made, a proposed Treaty was drawn up by representatives from both the countries concerned providing for an additional diversion of water for power from Niagara, but the proposed measure was rejected by the United States

Senate in January, 1931. In view of the uncertainty respecting the outcome of these negotiations, the Commission was not justified in counting upon Niagara waters as a source of additional power supply in the near future.

With regard to the Ottawa river, until recently, the Hydro-Electric Power Commission was unable to proceed in Ontario because claims made under the Charter of the Georgian Bay Canal Company were not definitely cleared away until this Charter was terminated by Federal action in 1927.

Confronted with such circumstances and restrictions—the bearing of which upon the Commission's work was appreciated by no one more clearly than by Mr. Magrath—the Commission believed that the best means of providing adequate power supplies for the immediate future consisted in purchasing power in large blocks at the best prices possible. After comprehensive survey of the various possibilities, the Commission in 1926 and subsequent years consummated several contracts for purchased power. These purchases consist of 260,000 horsepower from the Gatineau Power Company; a further contract covering an additional 60,000 horsepower also from the Gatineau; 250,000 horsepower from the Beauharnois development being made in Quebec on the St. Lawrence river; 125,000 horsepower from the Maclaren development on the Lievre river, also in Quebec; 96,000 horsepower from the Quebec portion of the Chats Falls development on the Ottawa river; and 100,000 horsepower to be developed at the Abitibi Canyon on the Abitibi river in Ontario. The Commission will also have 96,000 horsepower from its own portion of the development at Chats Falls. These provisions for power, together with the output of the Commission's existing generating plants, will aggregate in all some 2,000,000 horsepower by 1937.

Throughout the important considerations involved in these transactions, Mr. Magrath's wide business experience, his foresight, and his care to ensure not only that the needs of the municipalities of Ontario were provided for, but also that the interests of the municipalities were safeguarded, were features which carried forward the Commission's policy under his Chairmanship, and will be remembered by his colleagues with gratitude.

The work covered by this Report was performed under the Chairmanship of Mr. Magrath and it affords me much pleasure on behalf of my fellow-commissioner, Mr. Maguire, and on my own behalf to bear testimony here to the zealous and careful manner in which Mr. Magrath devoted himself to his public trust and to testify also to the sympathetic and painstaking manner in which he co-operated with his colleagues to deal satisfactorily with all issues which concerned the Commission's welfare.

Respectfully submitted,

J. R. COOKE,
Acting Chairman

TORONTO ONTARIO, March 31st, 1931.

HON. J. R. COOKE, M.L.A.,

*Acting Chairman, The Hydro-Electric Power Commission of Ontario,
Toronto, Ontario.*

SIR,—I have the honour to transmit herewith the Twenty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1930.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE,

Secretary

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TWENTY-THIRD ANNUAL REPORT

OF THE

Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL

At the 1930 session of the Legislative Assembly of the Province of Ontario, seven Acts relating to the work of The Hydro-Electric Power Commission of Ontario were passed. These are reproduced in full in Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1930, Chapter 12.

The Central Ontario Power Act, 1930, Chapter 13.

The Rural Power District Loans Act, 1930, Chapter 14.

The Rural Power District Service Charge Act, 1930, Chapter 15.

The Power Commission and Companies Transfer Act, 1930, Chapter 16.

The Sandwich, Windsor and Amherstburg Railway Act, 1930, Chapter 17.

The Windsor, Essex and Lake Shore Railway Act, 1930, Chapter 18.

The agreements between The Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 19th day of November, 1930.

CITIES

Belleville.....	Aug. 29, 1929.
Oshawa.....	Aug. 19, 1929.
Ottawa.....	Oct. 1, 1928.

TOWNS

Napanee.....	Feb. 3, 1930.
Port Hope.....	Jan. 27, 1930.
Southampton.....	Oct. 23, 1929.
Whitby.....	Feb. 22, 1927.

VILLAGES

Brighton.....	Feb. 11, 1930.
Cardinal.....	Nov. 15, 1929.
Madoc.....	Feb. 5, 1930.
Stirling.....	Jan. 13, 1930.
Windermere.....	Nov. 16, 1929.

TOWNSHIPS

Adjala.....	June 1, 1929.
Admaston.....	Mar. 22, 1930.
Ameliasburg.....	May 6, 1929.
Arthur.....	Aug. 11, 1930.

TOWNSHIPS—Continued

Ashfield.....	June 7, 1930.
Bastard and Burgess South.....	April 13, 1929.
Bastard and Burgess South.....	Dec. 16, 1929.
Cambridge.....	April 7, 1930.
Cartwright.....	Aug. 8, 1929.
Cramahe.....	May 2, 1930.
Crosby South.....	Oct. 29, 1928.
Crosby South.....	May 2, 1930.
Crowland.....	Mar. 28, 1929.
Cumberland.....	April 7, 1930.
Dummer.....	June 23, 1930.
Dunn.....	May 15, 1930.
East Luther.....	Aug. 10, 1929.
East Whitby.....	May 6, 1929.
East Whitby.....	Aug. 2, 1930.
East Williams.....	Sept. 15, 1930.
East Zorra.....	Mar. 11, 1929.
Egremont.....	Feb. 4, 1928.
Emily.....	Sept. 2, 1930.
Essa.....	Aug. 5, 1929.
Etobicoke.....	Mar. 25, 1929.
Fenelon.....	May 12, 1930.

TOWNSHIPS—Continued

Finch.....	Nov. 5, 1928.	Morrison.....	April 29, 1929.
Fitzroy.....	April 26, 1930.	North Walsingham.....	Nov. 30, 1929.
Front of Escott.....	April 1, 1929.	Orillia.....	July 2, 1929.
Front of Leeds and Lans-		Osnabruck.....	April 2, 1929.
downe.....	April 1, 1929.	Osprey.....	Sept. 8, 1930.
Front of Leeds and Lans-		Oxford.....	June 24, 1929.
downe.....	Nov. 4, 1929.	Pittsburg.....	June 3, 1929.
Front of Yonge.....	April 1, 1929.	Plantagenet North.....	Aug. 23, 1929.
Glenelg.....	April 12, 1930.	Plantagenet South.....	Aug. 23, 1929.
Goderich.....	Dec. 11, 1928.	Portland.....	Nov. 4, 1929.
Gosfield South.....	Sept. 14, 1929.	Rainham.....	April 7, 1930.
Grey.....	May 11, 1929.	Rear of Escott and Yonge.....	Nov. 17, 1928.
Hamilton.....	July 9, 1930.	Rear of Leeds and Lansdowne.....	Aug. 1, 1929.
Hibbert.....	Aug. 19, 1929.	Rear of Leeds and Lansdowne.....	Jan. 18, 1930.
Hillier.....	Oct. 3, 1929.	South Dumfries.....	Nov. 14, 1929.
Horton.....	April 10, 1930.	South Elmsley.....	June 25, 1930.
Houghton.....	April 9, 1930.	South Grimsby.....	Feb. 11, 1929.
Howick.....	Mar. 4, 1929.	Stanley.....	Dec. 11, 1928.
Hungerford.....	June 11, 1930.	Stephenson.....	Mar. 15, 1930.
Huntingdon.....	May 16, 1930 ¹	Thorold.....	Mar. 3, 1930.
Huron.....	May 26, 1930 ¹	Tiny.....	May 13, 1930.
Kitley.....	Nov. 29, 1928.	Tossorontio.....	Aug. 16, 1929.
Lochiel.....	Aug. 26, 1929.	Tossorontio.....	Nov. 18, 1929.
Loughborough.....	April 17, 1929.	Trafalgar.....	Nov. 30, 1928.
Manvers.....	May 30, 1929.	Tuckersmith.....	June 12, 1929.
Manvers.....	Feb. 5, 1930.	Tyendinaga.....	Dec. 15, 1928.
Matilda.....	May 1, 1930.	Walpole.....	April 10, 1930.
McKillip.....	May 25, 1929.	West Ferris.....	Mar. 9, 1929.
Medonte.....	Oct. 15, 1929.	Yarmouth.....	July 15, 1929.
Medonte.....	July 4, 1930.	United Townships of Belmont	
Morris.....	July 15, 1929.	and Methuen.....	May 25, 1929.

CORPORATIONS

American Cyanamid Company.....	May 30, 1928.
American Cyanamid Company.....	Oct. 25, 1928.
American Cyanamid Company.....	Dec. 12, 1928.
American Cyanamid Company.....	July 1, 1930.
Atlas Construction Company, Ltd.....	Dec. 31, 1929.
Beaverwood Fibre Company, Ltd.....	Nov. 30, 1929.
Canadian Salt Company, Ltd.....	Feb. 29, 1928.
The Cooksville Company, Ltd.....	April 1, 1929.
Denison Tile Company, Ltd.....	Sept. 1, 1928.
Department of Railways and Canals (re Golops Canal).....	April 22, 1930.
Department of Railways and Canals (Prescott Elevator).....	Sept. 8, 1930.
Dominion Sewer Pipe and Clay Industries, Ltd.....	June 1, 1928.
Dominion Woollens & Worsteds, Ltd.....	May 1, 1929.
Dufferin Construction Company, Ltd.....	July 17, 1928.
The Electro Metallurgical Company of Canada, Ltd.....	Nov. 7, 1928.
The Electro Metallurgical Company of Canada, Ltd.....	May 29, 1929.
Exolon Company, Inc.....	April 1, 1930.
The Goodyear Tire & Rubber Company of Canada, Ltd.....	Mar. 1, 1929.
The Hamilton Cataract Power, Light and Traction Company, Ltd.....	Dec. 13, 1928.
Howard Smith Paper Mills, Ltd.....	Nov. 1, 1928.
Howey Gold Mines, Ltd.....	April 25, 1929.
International Nickel Company, Ltd.....	June 19, 1930.
Fred Lepofsky and Harry Lepofsky (Streetsville Creamery).....	Mar. 1, 1929.
Lionite Abrasives, Ltd.....	Feb. 3, 1930.
Milton Brick, Ltd.....	Feb. 1, 1929.
Norton Company.....	Sept. 1, 1928.
Norton Company.....	May 25, 1929.
Norton Company.....	May 5, 1930.
Ontario Paper Company, Ltd.....	May 1, 1930.
Oshawa Railway.....	Oct. 1, 1929.
Port Credit Brick, Ltd.....	Mar. 18, 1930.
J. P. Porter & Sons.....	April 1, 1930.
Republic Carbon Company, Inc.....	Aug. 1, 1929.
St. Mary's Cement Co., Ltd.....	June 17, 1930.

CORPORATIONS—Continued

Strathcona Paper Company, Ltd.	Oct. 31, 1928.
Strathcona Paper Company, Ltd.	Nov. 1, 1929.
Union Natural Gas Company of Canada, Ltd.	Sept. 1, 1929.
Union Natural Gas Company of Canada, Ltd.	May 1, 1930.

Right-of-Way

Rural Power Lines

During the year extensive construction work has been carried on in different parts of the Province on rural power lines. The principal rural power districts in which work of this nature has been proceeded with are as follows: Apple Hill, Alliston, Alexandria, Aylmer, Ayr, Bond Lake, Belleville, Brockville, Baden, Barrie, Beamsville, Beaumaris, Bowmanville, Brigden, Bothwell, Brighton, Brant, Clinton, Caledonia, Cobourg, Chesterville, Colborne, Creemore, Dorchester, Drumbo, Elora, Elmvale, Galt, Hawkestone, Innisfil, Ingersoll, Kingsville, Kingston, London, Maxville, Martintown, Mariposa, Millbrook, Merlin, Nepean, Napanee, Newcastle, Newmarket, Oshawa, Peterborough, Port Hope, Prescott, Pickering, Port Perry, Ridgetown, St. Marys, St. Jacobs, Smiths Falls, Stirling, Stratford, Sparrow Lake, Simcoe, Strathroy, Trenton, Thamesville, Thornton, Uxbridge, Utterson, Welland, Woodbridge, Wellington, Waterford, Walsingham, Woodstock.

In this connection it was necessary to secure right-of-way in many cases where the lines could not be located on public roads, as well as to settle for tree-trimming rights in a number of cases, and for claims for damages to fences and crops where it was found expedient to locate the lines on private property. Arrangements also had to be made with the Department of Public Highways, as well as county and municipal authorities having control of the various roads upon which this work was carried on.

Low-Tension Lines

The number of low-tension lines under construction during the year exceeded that of the previous year by nearly one hundred per cent. The construction of these lines also rendered it necessary to secure the usual tree-trimming rights, pole rights, settlements for anchors, and damage claims. The following list shows the various lines on which work of this nature was carried on during the year:

Todmorden Junction to Brinlock.	Woodstock to Dufferin Construction Company, Innerkip.
Guelph to Georgetown.	Woodstock to Norwich.
Hanover Station to Walkerton Junction.	St. Thomas to St. Clair.
Tara to Southampton.	Brant to Brantford.
Saugeen Junction to Derby Mills Junction.	Essex to Maidstone.
Gravenhurst Junction to Kilworthy Junction.	Essex to Canada Salt Company Junction.
High Falls to Balderson Station.	York to Weston.
Smiths Falls to Rideau Junction.	Wiltshire to Weston.
Rideau Junction to Merrickville Station.	Wabash Junction to Thorold.
Williamsburg to Winchester.	McCabe Avenue Junction to Crowland Junction.
Brockville to Athens.	Lucan to Exeter.
Cornwall Junction to Winchester Junction.	Exeter to Kent.
Beaumaris to Huntsville.	Mount Brydges Junction to Strathroy.
Dundas to Caledonia.	Dorchester Junction to Asylum Junction.
Guelph to Ontario Agricultural College Junction.	Elginfield Junction to Lucan.
Preston to Kitchener.	Reformatory Junction to Rockwood Junction.
Kitchener to Waterloo.	Acton to Georgetown.
Kitchener to Baden Junction.	St. Jacobs Junction to Elmira.
Woodstock to London.	

Low Tension Lines—Continued

Dublin to Seaforth Junction.
 Sebringville Junction to Milverton Junction.
 Aylmer Junction to Aylmer Station.
 Paris Junction to Paris Station.
 Streetsville Junction to Milton Station.
 Bothwell Junction to Ridgetown Junction.
 Bothwell Junction to Wallaceburg Junction.
 Maidstone to Essex Junction.
 Amherstburg Junction to Harrow Station.
 Cottam Junction to Leamington.

Woodbridge Station to Kleinburg Station.
 Watford Station to Alvinston Station.
 Sarnia Junction to Forest Junction.
 Calabogie to Burnstown.
 Arnprior to Galetta.
 Waubaushe to Midland.
 Fergusonvale Junction to Camp Borden Junction.
 Bingham Chute Junction to Callendar Station.

Substation Sites

Land required for sites for the erection of new substations has been purchased in the following cases: Consecon, Tara, Hanover frequency changer station, Woodbridge, Painswick, Kitchener, Utterson, Cardinal, Kingsville, Fergusonvale, Hastings, Napanee, addition to Leaside station.

Sites for Operators' Residences

Purchases of the necessary land have been completed in the following cases: Trout Lake, Nipigon, Cloyne, Hanover, White.

Flooding Rights

The purchase of lands to be flooded in connection with power development at Trethewey Falls on the Muskoka river, and at Elliott Chute on the South river, has been practically completed. Similar purchases have been made of lands adjacent to the Ottawa river, in connection with the development at Chats Falls, and also on lake Wanapitei in connection with the development at that point. In connection with this last-mentioned development it was necessary to secure settlements for a substantial number of damage claims which had been incurred in connection with the raising of the water in the lake. With one or two exceptions these claims have been disposed of.

Gatineau High-Tension Lines

The acquisition of tower easements for the second circuit of the Gatineau power lines has, with the exception of a few outstanding claims, been completed.

The right-of-way for the third Gatineau line westerly from the Ottawa river to a point near Cooper in Hastings county has been nearly all secured. The territory through which this line passes is largely bush and rough land. The right-of-way department has had charge of the clearing of the right-of-way for this line, and this work also has been nearly finished. The work of clearing was mostly let to residents along the line, it having been found that better service is secured in this way.

The third and fourth circuits of the Gatineau lines are now being laid out, and in the township of Scarborough a substantial portion of the necessary right-of-way has been secured. The work of securing the remainder of this right-of-way will be proceeded with immediately upon the completion of the survey work.

Beauharnois High-Tension Line

A large amount of preliminary work has been performed in connection with the layout of this line, and in this case also the work of securing easements for the right-of-way will be proceeded with upon completion of the surveys.

Hanover-Kitchener High-Tension Line

The work of securing the right-of-way for this line has been completed.

General

An increased number of leases for offices for rural power districts and electrical inspection work have been made with the owners of the various properties concerned. A number of licenses have been obtained from the Dominion and Provincial Governments for the right to erect transmission lines across navigable waters.

A number of parcels of property no longer required by the Commission have been disposed of.

The continued activity of the Department of Public Highways in widening and otherwise improving many of the highways throughout the Province has necessitated the relocation of many of the Commission's lines previously placed on these roads. In all cases satisfactory arrangements have been made with the Highways Department. Similar comments also apply to many of what are known as county roads throughout the Province which are under the control of the various counties.

The widening of the provincial highway west of the Humber river leading into the city of Toronto rendered it necessary to transfer to the Highways Department a considerable strip of land owned by the Commission in that locality.

SECTION II

OPERATION OF THE SYSTEMS

The outstanding feature of the year's operation was the continuation of the load at higher figures than ever before, in spite of the general industrial depression.

The growth of load during the fiscal year 1928-29 was abnormally large, as shown in last year's Report, amounting to 23 per cent. on the total load, which is equivalent to the normal increase for two years instead of one. That increase appeared to be due to the great industrial activity prevailing at that time and to a wide-spread condition of prosperity throughout the Province. The use of electricity for power in factories and for lighting and domestic services in private homes throughout the greater part of the Province undoubtedly reflects business conditions, and records of the consumption of electricity are used generally by statisticians as an index for this purpose. While the heavy consumption of electricity during the year 1928-29 appeared to be the natural result of the prosperous conditions then prevailing, it is remarkable that during the past year of 1929-30, which has been regarded generally as one of industrial depression, the consumption of electricity remained at the high figure set in the previous year, with a further slight increase.

The only evident effect of the depression on the load appears in the small ratio of the increase in the load this year as compared with ratios for previous years. The effect of the depression was most marked in the Niagara system, apparently due to a decrease in the power used by large chemical and metallurgical plants near Niagara Falls. These plants, as noted in last year's Report, were responsible for a part of the abnormal increase in the total load during 1928-29, and decrease in the load of these plants had the opposite effect on the present year's figures. While the maximum load on the Niagara system was slightly greater during 1929-30 than during the previous year, the total number of kilowatt-hours shows a slight decrease, amounting to one-half-of-one per cent. (Export power is excluded in all cases.) On all other systems there was an increase in both the maximum load and the total kilowatt-hours used. On the Georgian Bay system and in the Ottawa district this increase of load approached the figures for an ordinary year, but on the other systems the rate of growth was less than the average.

The lack of sufficient water reduced the output of some of the Commission's plants, the rainfall during summer months being much below normal in parts of the Province, and 1928-29 also having been a dry season the storage waters and

stream flow were greatly reduced during the latter part of the year 1929 and during the summer of 1930. In the section of this Report dealing with water conditions in the Eastern Ontario system a graph is given showing precipitation in the central part of the Province according to reports from several stations of the Government Meteorological department, and a similar graph for 1928-29 appeared in last year's Report. From these it will be noted how far below normal the precipitation has been during the summer months of the past two years. The effect of the dry summer season was felt most severely in the Nipissing district where restrictions had to be placed on the load toward the end of 1929, and in the Georgian Bay system where power had to be purchased from steam plants and an increased supply transferred from the Niagara system. The effect of the dry season was less in the Central Ontario and Rideau districts, and because of power available under the Gatineau contract no difficulty was experienced in supplying the loads. Had power not been available under the Gatineau contract, load restrictions would have been necessary in the Central Ontario district during November and December, 1929, and again in September and October, 1930. In the Madawaska district no load restrictions have been necessary, although no outside source of supply was available, but the storage waters have been seriously depleted so that at the end of the fiscal year it appears probable power will have to be brought into the district from some outside source. The Thunder Bay System plants, the plant at Ear Falls, and the plants in the Sudbury district were not similarly affected, the distribution of rain being somewhat different in these districts and the plants less directly dependent on the precipitation. On the Thunder Bay system no load restrictions were necessary on account of the large storage area in lake Nipigon, but care had to be used in regulating the flow to avoid any wastage, the storage being reduced to the lowest point in some years. In the Sudbury district one of the generating stations suffered some damage through excessive rainfall and flooding in June. The plants on the Niagara river are independent of rainfall, the restrictions on the water used there arising out of international treaties. However, advantage was taken of the power available under the Gatineau contract to shut down generators and carry out an extensive program of maintenance work, such as the concreting of the third pipe line at the Ontario Power plant. This resulted in some reduction of the total kilowatt-hours generated during the year, the peak load carried being about the same.

In the Nipissing district the completion of the Elliott Chute generating station in the fall of 1929, with a normal capacity of 2,400 horsepower, prevented the shortage of power from becoming as severe as would otherwise have been the case. There are now three hydro-electric generating plants on this system with a normal capacity of 5,900 horsepower, as compared with one hydro-electric plant of 2,300 horsepower when the system was taken over by the Commission. The normal capacity of the three plants, 5,900 horsepower, is ample to carry the load, which amounted to 3,820 horsepower, but as all three plants are dependent on the flow in the South river, any abnormal reduction of flow reduces the actual capacity available at all plants. This is what occurred at the beginning of the past fiscal year of 1929-30, due to the abnormally dry summer. In order to safeguard the system against such temporary load restrictions in future, arrangements are being made for a supply of power from an outside source which will not be dependent on the flow in the South river.

On the Georgian Bay system the construction of a frequency-changer station at Hanover, with a rated capacity of 5,000 kw. at 80 per cent. power

factor, has made possible the transfer of over 7,000 horsepower from the Niagara system, thus affording protection to the Georgian Bay system against shortage of power due to abnormally dry seasons in that district. As the number of plants on the Georgian Bay system is larger than in the Nipissing district, and as they are situated on different rivers and supplied from independent storage areas, they are not as likely to be all affected at the same time by any shortage of water.

The acquisition of the plants and lines in Bruce county, following bankruptcy of the previous owners, added some new territory and three small hydro-electric generating plants to the Georgian Bay system. Due to lack of meters, the output of these plants is not included in the table of power generated, and the load of the municipalities supplied is not included in the figures for the Georgian Bay system.

The two plants at Bala also lack meters, so that figures for their output is not included in the table published herein. The totals are incomplete to this extent, but the percentage of error on the total is small, and load conditions are better than shown to this slight extent. Arrangements are being made to obtain more complete measurement of the load generated at these smaller plants.

Forestry Division

A new section has been added to the Operating department, known as the Forestry division, with the object of preserving trees along public highways where they approach or come in contact with the power lines of the Commission. Maintenance of an uninterrupted power supply necessitates the branches being kept pruned back from the wires, and the Commission has always endeavored to carry out such work with a minimum of damage to the trees. Line men were given special instructions to preserve the appearance of the trees, but the problem of reconciling the conflicting interests of the trees and the wires is often difficult, requiring a knowledge of forestry as well as of line work. The Commission has employed from time to time various tree experts, and engaged the services of institutions which make a speciality of tree trimming. The volume of this work has become so great that this year a special Forestry division has been formed in charge of men who have had special training in the scientific pruning and care of trees. A number of men have been employed, some being men with previous experience in forestry work and some linemen familiar with the work necessary to protect lines. A special training camp was opened where these men were given instructions and practical demonstrations by experts. These squads, under qualified foremen, are now employed in various localities, going over the power lines systematically in order that the beauty and life of the trees along our highways may be preserved to the fullest extent possible.

While these men are employed as a part of the Operating department on the numerous power lines throughout the Province, they are also used as occasion requires for tree trimming along rural lines or on new construction, and in future will be available on call for such municipalities as desire the benefit of their services on streets within the municipal boundaries.

Meter Division

The meter section of the Operating department has been active during the year, making tests of equipment, checking and maintaining the graphic meters used on large power loads, testing relays and carrying out investigations of various problems requiring special technical training. This section, which has been in

existence for several years, is composed of electrical engineers who have specialized in the problems connected with measuring electricity and in the allied subject of relays. Due to the enormous capacity now connected to the Commission's lines, almost unlimited power might be fed into any equipment or line which breaks down in service if means were not provided for almost instantly cutting off the supply of electricity to the defective equipment. In such cases not only would the defective equipment be burned out by the rush of current but the disturbance and possible damage would extend back through all intervening equipment to the generators at the source of supply, and service might be interrupted over a large area or on the whole system. The importance of the instantaneous automatic opening of the proper switches has constantly increased with the increase in the generator capacity and number of consumers. In order that the relays which control the numerous switches shall function properly and promptly, the inspectors of the meter section carry out a regular system of inspection, and make the necessary adjustments to take care of constantly changing load conditions. The success of their work is evidenced by the past year's freedom from serious electrical damage to equipment, and in the high grade of service given to consumers generally.

In addition to the meter and relay inspectors stationed at various points, or with headquarters at Toronto, meter shops are maintained at Toronto, Niagara Falls and Belleville. At these shops repairs and alterations are made to the meters and relays, and new equipment designed and constructed to meet special conditions.

The engineers of the meter staff are frequently called upon to deal with intricate problems associated with other branches of the Commission's work, involving investigations to determine accurately the voltage or current conditions and the performance of apparatus. They are also frequently consulted by the municipalities on matters connected with meters and relays, and are available to the municipalities on call for investigation of load conditions which require either special metering equipment or specially trained engineers.

The meter shop at Niagara Falls deals with many problems connected with the measurement of the large amounts of power generated at the Commission's plants there, which often demand the invention or designing of special apparatus to meet conditions which are outside of the commercial field covered by the manufacturers of electrical equipment. Much work has been done in these shops in designing meters for combining and recording at one point the load being delivered at a number of points. During the past year, several special meters of this type were constructed and supplied to various power plants. Electrolysis action having eaten holes in the lead sheaths of cables between the Ontario Power plant and Niagara station, the engineers of the meter shop made a study of conditions to determine the cause, and by altering ground connections and insulating certain joints were able to prevent further electrolysis. The underground telephone cable between Queenston and the Ontario Power plant, which is used for both telephone communication and metering purposes, is subject to tremendously steep voltage gradients in the ground whenever an insulator flashes over on the nearby 60,000-volt power line. This causes current to flow from the lead sheath to the copper telephone conductors inside, near the flash-over, and from the copper back to the lead at some point more distant. The result has been a number of holes in the lead sheath allowing the telephone conductor to become wet, and every year it is necessary to repair this cable to

**TOTAL POWER GENERATED AND
HYDRO-ELECTRIC GENERATING PLANTS**

Plant	Normal operating capacity Oct. 31, 1930 horsepower	Peak load during fiscal year 1929-1930 horsepower	Total output during fiscal year 1929-1930 kilowatt-hours
Niagara: Queenston Plant.....	522,790	524,129	2,716,063,000
Niagara: "Ontario Power" Plant.....	183,650	180,965	698,823,100
Niagara: "Toronto Power" Plant.....	147,450	140,751	160,850,000
Sidney—Dam No. 2.....	4,020	4,558	16,600,100
Frankford—Dam No. 5.....	3,485	3,418	10,433,650
Meyersburg—Dam No. 8.....	6,430	8,043	26,020,850
Hague's Reach—Dam No. 9.....	4,500	4,960	17,920,670
Ranney Falls—Dam No. 10.....	9,650	10,724	32,819,820
Seymour—Dam No. 11.....	4,020	4,490	15,616,620
Heely Falls—Dam No. 14.....	12,060	16,221	36,941,280
Auburn—Dam No. 18.....	2,010	2,614	10,516,810
Fenelon Falls—Dam No. 30.....	1,000	938	2,622,100
Cameron Falls.....	75,000	77,880	297,741,000
Alexander.....	12,000	12,100	2,064,000
Eugenia.....	7,300	7,198	13,690,800
Big Chute.....	5,700	5,791	18,355,200
South Falls.....	5,200	5,455	23,434,320
Wasdells Falls.....	1,200	1,166	3,731,580
Hanna Chute.....	1,500	1,609	6,446,400
Trethewey Falls.....	2,200	2,279	6,391,200
Hanover.....	400	442	701,184
Nipissing.....	2,346	2,393	6,832,040
Bingham Chute.....	1,200	1,287	2,380,800
Elliott Chute.....	2,413	1,796	2,445,760
Coniston-Wahnapiatae, No. 1.....	5,777	5,496	16,690,250†
McVitties-Wahnapiatae, No. 2.....	2,815	2,815	12,918,312†
Stinson-Wahnapiatae, No. 3.....	8,180	6,166	18,520,560†
Ear Falls.....	5,000	1,582	4,056,000
Calabogie.....	4,300	2,513	6,170,652
Galetta.....	860	832	2,216,828
High Falls.....	2,400	3,080	8,850,360
Carleton Place.....	428	362	107,384
Total generated.....	1,047,284	1,044,053	4,198,972,630

maintain enough good conductors for service. The ordinary methods of locating faults do not indicate with sufficient exactness the point at which the cable should be dug up and cut open for repair. The meter staff has developed a method for this work which locates the fault to within one-half inch before the cable is sawed open. Another illustration of the special work carried out by this department occurred in connection with a request from an oil company to investigate a dangerous sparking noticed at the metal hose connections between a gasoline tank steamer and the land tank pipe flanges. The meter inspector discovered, on investigation, that the cause was current returning in the ground from an electric railway system, and although the voltage at the coupling was scarcely noticeable—less than one volt maximum—the current ran up to 30 amperes when the circuit was closed by making gasoline hose connections. A system of heavy by-pass cable, with switches located away from the gasoline fumes, and certain insulating precautions, eliminated the sparking. Aside from work of this special nature the meter staff carries out the regular routine of testing the numerous meters and relays at the plants in the district.

PURCHASED—ALL SYSTEMS

POWER PURCHASED

Plant	Contract amount horsepower	Peak horsepower	Total purchased kilowatt-hours
Canadian Niagara Power Co.....	20,000	22,118	93,115,700
Gatineau Power Co.—25 cycle.....	250,000	219,000	656,727,160
Orillia Water, Light & Power Commission†.....		2,638	575,280
C.P.R. Plant, Port McNicoll.....		1,675	519,300
Owen Sound steam plant.....		885	473,700
Rideau Power Co.....	487	978	2,686,200
Ottawa and Hull Power & Mfg. Co.....	20,000	19,584	66,884,400
Gatineau Power Co.—60 cycle.....	18,000	18,760	42,436,000
Cedar Rapids Power Co.....	7,500	7,185	30,772,500
Campbellford Water & Light Commission†.....	2,010	2,279	2,761,500
Peterborough Hydraulic Power Co.†.....		1,340	9,670
Canadian General Electric Co.†.....			
Corporation of Fenelon Falls.....			
Kaministiquia Power Co.....			63,200
M. F. Beach Estate.....	500	375	350,000
Total purchased.....	318,497	296,817	897,374,610
Total generated and purchased, 1930.....	1,365,781	1,340,870*	5,096,347,240
“ “ “ “ 1929.....	1,222,321	1,258,491*	4,992,937,029
Increase.....	143,460	82,379*	103,410,211

†Wahnapitae plants shown for 10-month period only.

†Reciprocal arrangement for surplus power.

*Peak totals given are direct sums of plant peaks as shown, with no allowance for diversity in time. Therefore, these totals do not indicate the demands on the various systems where there is more than one plant supplying power.

NOTE.—Output of five generating stations, at Bala (two), Walkerton, Southampton, and Sauble Falls, not included due to lack of records. Dominion Power and Transmission System plants are also omitted, as they were not operated by Commission until latter part of year.

NIAGARA SYSTEM

Queenston Generating Station

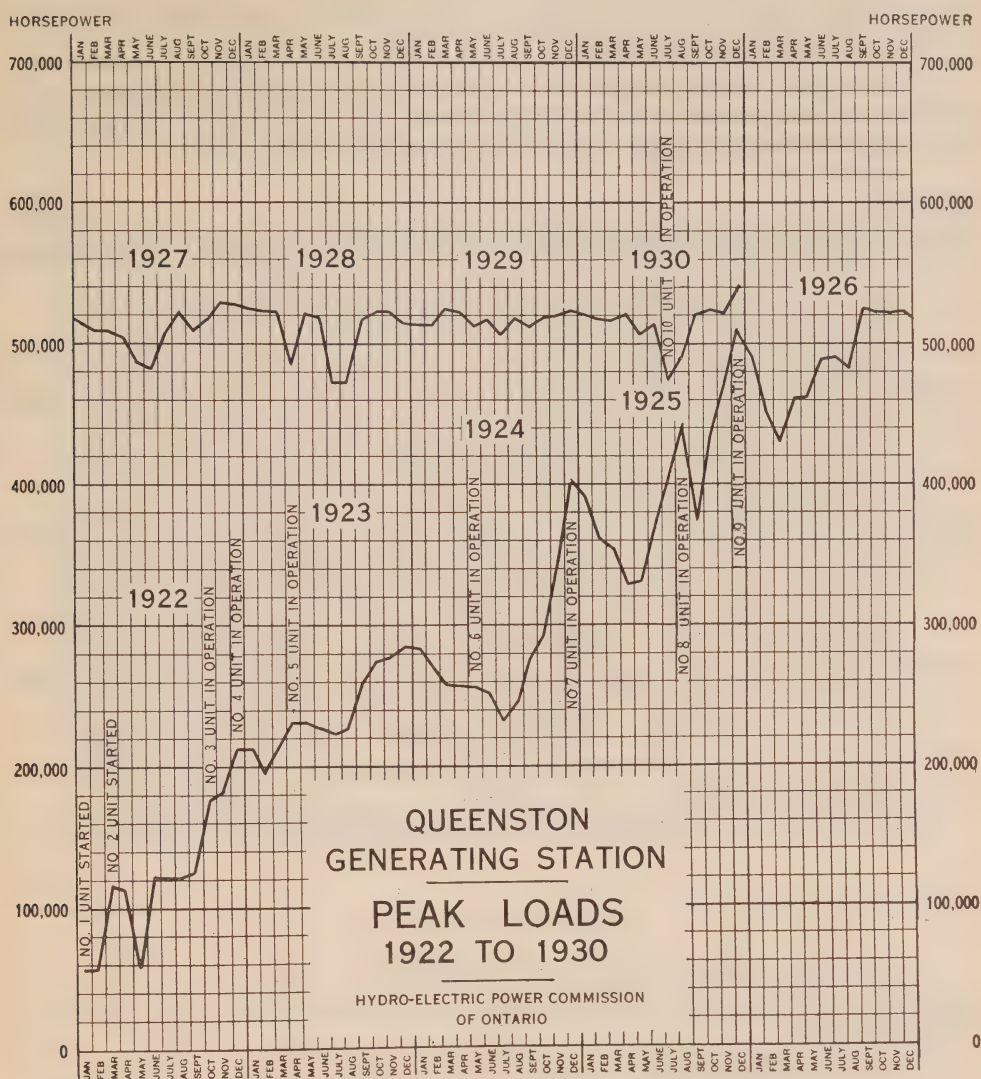
The operation of this plant was very satisfactory throughout the year. There were but two failures of equipment.

On March 31, 1930, the upper guide bearing on No. 8 unit burned out, necessitating repairs on the shaft and bearing, which were completed and the unit returned to service on May 1, 1930.

On December 13, 1929, a transformer in No. 2 bank, rated at 15,000 kv-a. 63,500/12,000 volts, failed. This unit was repaired and returned to service on May 11, 1930.

The installation of No. 10 unit was completed and the machine placed in operation on July 4, 1930. The permanent wall at the north end of the plant has been completed and the final finishing touches are being carried out.

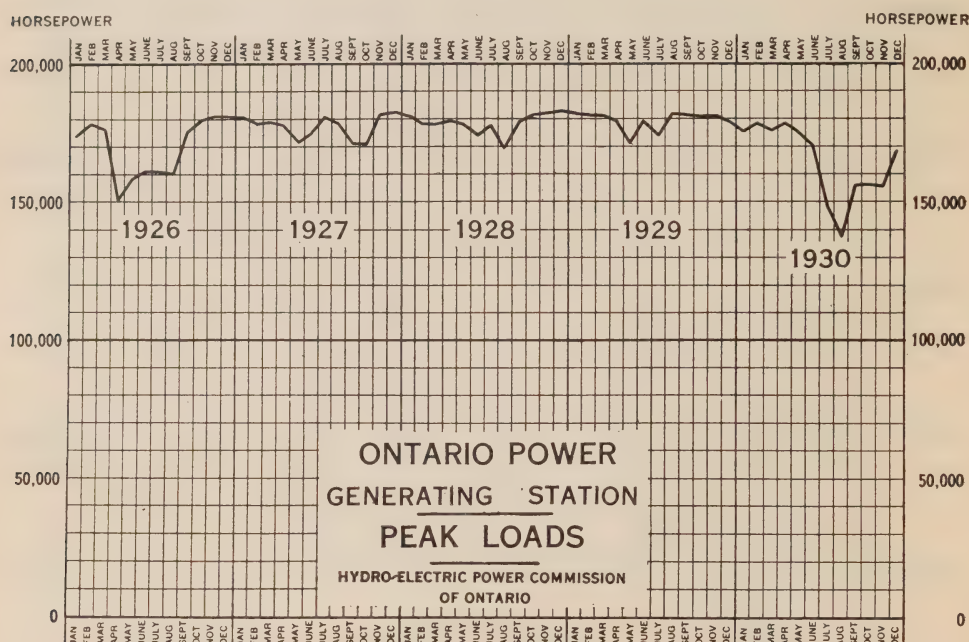
The following machines were removed from service during the summer for inspection, repair, and overhaul: May 2 to May 13, No. 9 unit: generator



cleaned and guide bearings replaced. May 14 to June 12, No. 2 unit: generator field coils reinsulated, stator windings cleaned and painted, guide bearings repaired, and welding done on turbine runner. June 13 to June 23, No. 4 unit: guide bearings repaired and turbine runner welded. July 2 to July 26, No. 6 unit: generator stator winding cleaned and painted, guide bearings repaired, welding done on turbine runner, and new draft-tube seal-ring installed; complete unit realigned. July 13 to August 13, No. 7 unit: generator stator coils renewed, guide bearings repaired, and turbine runner welded; complete unit realigned. July 27 to August 30, No. 1 unit: generator field coils reinsulated and stator coils cleaned and painted, guide bearings repaired, rebuilt spare runner installed; complete unit realigned. August 19 to August 28, No. 3 unit: guide bearings repaired and turbine runner welded. September 2 to November 14, No. 5 unit: generator stator completely dismantled, frame rebored, new stator laminations

and coils installed, field coils removed and overhauled, guide bearings repaired, turbine runner welded; complete unit realigned.

The usual annual inspection of all electrical, hydraulic and mechanical equipment was carried out and repairs made where necessary. Considerable painting was carried out and miscellaneous improvements made.



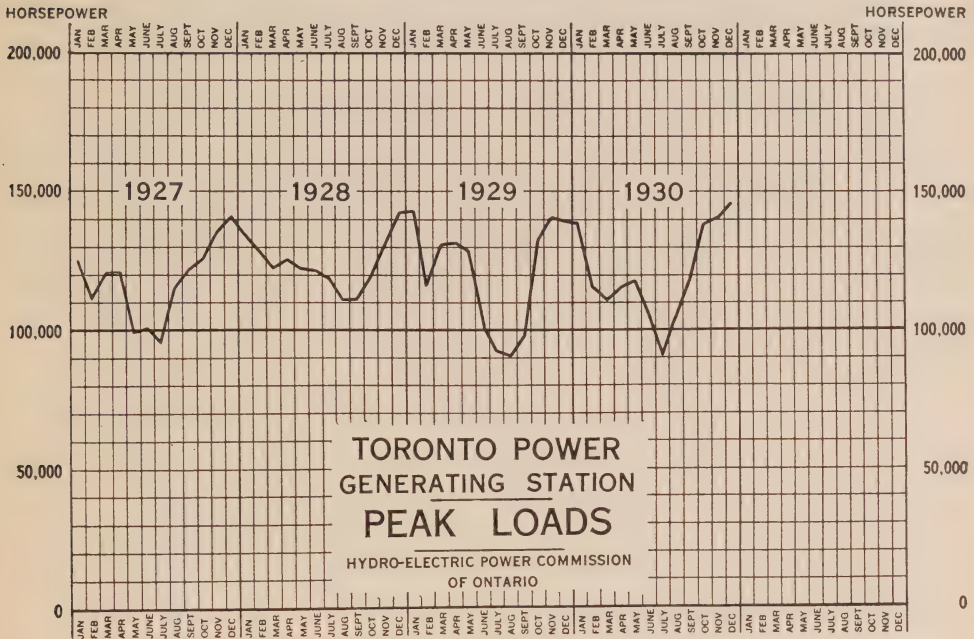
Ontario Power Plant

The Ontario Power plant of the Commission at Niagara Falls gave very satisfactory service, units No. 5 and No. 1 being the only ones to fail in service during the year.

The following machines were out of service during the year for inspection, repair and overhaul: May 9 to June 23, No. 1 unit: generator field coils reinsulated and stator coils cleaned and painted; new turbine runner installed, and the seal rings and cheek plates repaired. June 17 to August 6, No. 12 unit: generator stator coils cleaned and painted, new turbine runner installed, and the seal rings and cheek plates repaired. June 28 to September 13, No. 3 unit: generator field coils reinsulated and stator coils cleaned and painted, new runner installed and the seal rings and cheek plates repaired. August 8 to October 13, No. 8 unit: generator stator coils cleaned and painted, new turbine runner installed and the seal rings and cheek plates repaired. September 28 to December 3, No. 5 unit: this generator failed in service and two groups of stator coils had to be renewed, and the winding cleaned and painted. A new turbine runner was installed and the seal rings and cheek plates repaired. October 23 to December 15, No. 1 unit: this generator also failed in service, requiring all stator coils to be replaced.

The concreting of No. 3 wood-stave pipe line was started on May 26 and completed on October 31, 1930.

During the year all minor equipment was regularly inspected and repairs made where necessary, the plant generally being kept up to a high standard.



Toronto Power Plant

The operation of the above plant was carried out in the usual way during the year. The plant was closed down completely on July 14, 1930, for inspection of the discharge tunnel, which was found to be in good condition.

The following machines were out of service during the year for inspection, repair and overhaul: November 18 to November 19, 1929, No. 3 unit: generator stator coil broke down and was repaired. March 19 to March 23, 1930, No. 2 unit: generator stator coil broke down and was repaired. March 19 to March 28, No. 3 unit: generator stator coil broke down and was repaired. April 7 to June 28, No. 4 unit: turbine runner welded, new gate rods and bushings installed, guide bearing renewed. April 24 to April 25, No. 6 unit: generator stator coil broke down and was repaired. June 24 to June 25, No. 6 unit: generator stator coil broke down and was repaired. July 3 to September 3, No. 6 unit: turbine runner welded, new gate rods and bushings installed, guide bearings renewed. (These are the first repairs required by this turbine since its installation in March, 1912, over eighteen years ago.) September 4 to October 20, No. 8 unit: lower turbine gates repaired. September 11 to September 12, No. 3 unit: generator stator coil broke down and was repaired.

At the Toronto Power transformer station the 90,000-volt service to Toronto was discontinued on March 8, 1930, and the two 90,000-volt transformer banks reconnected for 60,000-volt service on October 17, 1930.

On December 28, 1929, No. 1 transformer in No. 3 bank failed. This unit was repaired and returned to service on January 23, 1930.

Regular inspection and repair of all minor equipment was carried out during the year to maintain the plant in the best possible condition.

Transmission, Transformation and Distribution

The operation of the 220,000-volt section of the system was very satisfactory, there being no failures of the 220,000-volt lines cutting off the supply of power to Leaside station. During a lightning storm one of the 220,000-volt circuits opened automatically, but service was not interrupted as this occurred after the second circuit was in operation. The 220,000-volt transformers and other equipment in the station at Leaside gave good service, there being only two interruptions during the year to the low-tension lines supplied from the station, these having a duration of only one minute each.

The operation of the 110,000-volt transmission lines was also very satisfactory. The system was divided into three divisions for operating purposes, known as the yellow, green and brown, in order to promote continuity of service by segregating any trouble that might develop. There was no interruption to service on the green division during the year. On the yellow division there were two interruptions totalling $3\frac{1}{2}$ minutes caused by lightning, and on the brown division four interruptions, totalling $8\frac{1}{2}$ minutes, two caused by lightning, one by sleet, and one by insulator flashover.

From December 7 to 9, 1929, a sleet storm in the Essex and Brant districts caused some damage to low-tension lines.

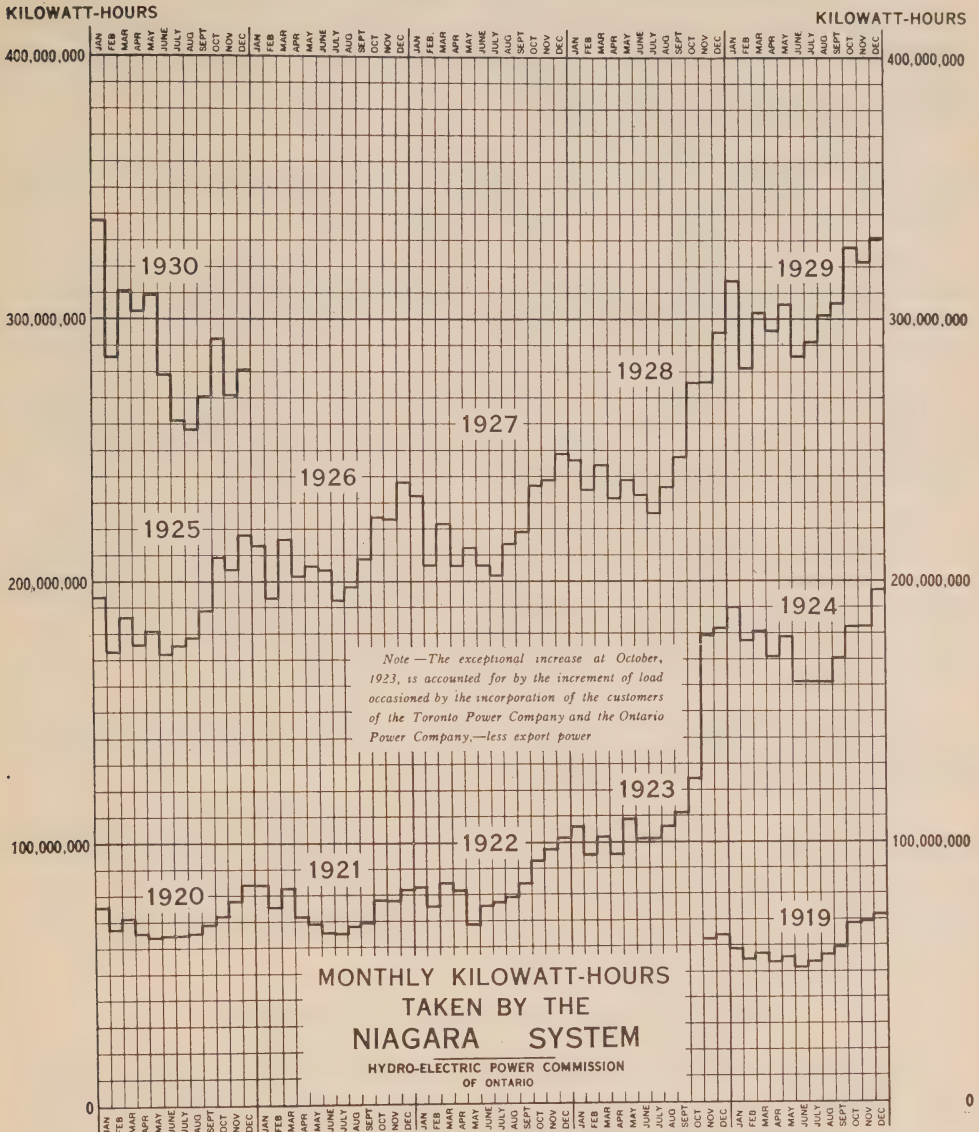
A sleet storm of exceptional severity, lasting from December 17 to December 20, 1929, caused damage to the 110,000-volt circuits between Niagara Falls and Dundas, and to low-tension lines in Niagara, Dundas, Brant, Woodstock, London, St. Thomas, Kent and St. Clair districts.

The sleet storm of March 25 and 26, 1930, caused trouble on the 110,000-volt circuits between Niagara Falls and Dundas and on the low-tension lines in Brant, Woodstock, Kent and Essex districts.

A severe wind and lightning storm on May 1, 1930, caused interruptions and damage to lines in the Cooksville district, and a similar storm on September 2, 1930, affected the York and New Toronto districts.

On October 14th, 1930, a tree felled against a power line near Woodstock short-circuited the line, causing the breakdown of equipment and a fire in Woodstock high-tension station, and resulted in a total interruption of two hours and twenty-nine minutes to all service in the district.

The usual regular patrol, inspection, and maintenance work was carried out on all lines during the year; all lines damaged by storms and otherwise were repaired. Insulators were meggered and tested on both high-tension and distribution lines.



Changes were made in the 110,000-volt circuits at Queenston, Hamilton and York stations, and at Saltfleet and Nelson junctions to facilitate load distribution and better to suit operating conditions. The 90,000-volt circuits from Islington to Toronto were reinsulated for 110,000-volt operation and placed in service on March 9, 1930.

The distribution circuits in the Guelph district and in part of the Kent, York and Dundas districts were overhauled.

The second 220,000-volt line from Leaside to the Ottawa river was completed and put into operation on July 27, 1930.

The following 110,000-volt circuits were put in operation: Queenston generating station to Queenston forebay, Hamilton junction to Hamilton transformer station, Kitchener transformer station to Hanover frequency-changer station, and Montrose junction to Crowland junction, the latter being operated at present at 60,000 volts.

The following 26,000-volt distribution lines were put in operation: Essex transformer station to Maidstone junction, Maidstone junction to Essex distributing station, Burford to Canadian Aggregates.

New 13,200-volt lines were put in service from Toronto Power transformer station to Chippawa junction, and from the Riordon Paper Company to Merritt-ton substation. The 13,200-volt line from Lincoln junction to the south side of Welland canal was removed.

All equipment at high-tension transformer stations and distributing stations was inspected and overhauled, and repairs made on all damaged equipment. At several high-tension stations the original 110,000-volt oil-breaker bushings were replaced with the gum-filled type.

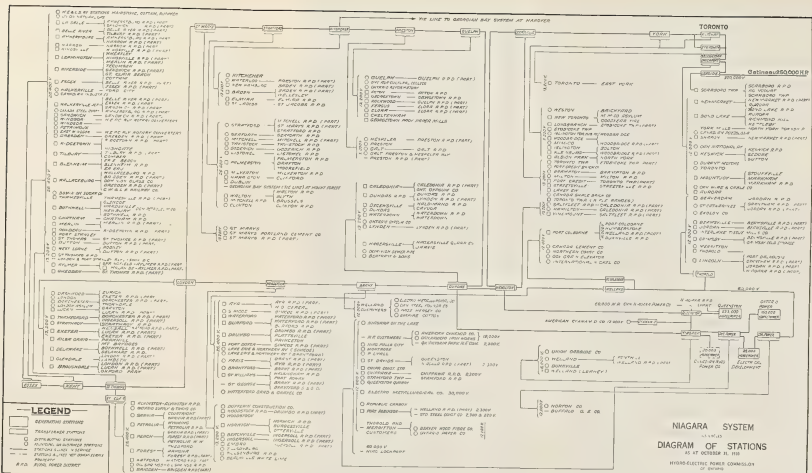
There were ten failures of transformers during the year, of which two were returned to the manufacturers for repairs, six were repaired by the Commission's own maintenance staff, and two 90,000-volt units were not repaired as they were not required for service, the 90,000-volt lines being discontinued. Seven 750 kv-a. high-tension units, which had been out of service for some years, were overhauled and rebuilt for use at the new Hanover station.

During the year a number of changes were made in the capacity of high-tension stations and distribution stations as covered in the electrical engineering and construction sections of this Report.

The following new distributing stations were put in service during the year: Rifle Ranges, Beaverdam, Strathroy R.P.D., Woodbridge, Maidstone, Ruthven and Cottam. The original Woodbridge station was dismantled. The transformer and converter equipment at the Canada Salt company, owned by the Commission, was sold to the Canada Salt company.

Dominion Power and Transmission System

The Commission acquired, under purchase agreement dated April 2, 1930, certain properties and subsidiaries of the Dominion Power and Transmission Company, including generating plants, transmission lines and sub-stations. To avoid disturbing service to the customers, the operation of the properties was continued on the same basis as in the past by the staff taken over with the properties. Detail studies are being made to determine how the operation of the new stations and lines may be best co-ordinated with the operation of the Commission's Niagara system to the mutual advantage of both.



NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Acton.....	571.7	609.0	778.7		169.7
Agincourt.....	112.8	123.0	131.3		8.3
Ailsa Craig.....	100.8	82.3	87.9		5.6
Alvinston.....	77.0	78.0	88.2		10.2
Amherstburg.....	513.4	573.7	600.5		26.8
Ancaster Township.....	356.5	351.2	250.6	100.6	
Arkona.....	60.0	60.0	61.6		1.6
Aurora.....	785.0	825.7	860.6		34.9
Aylmer.....	468.0	457.3	529.5		72.2
Ayr.....	128.9	136.2	172.2		36.0
Baden.....	313.6	268.1	277.5		9.4
Barton Township.....	652.4	79.7	71.0	8.7	
Beachville.....	214.5	260.0	238.6	21.4	
Belle River.....	70.3	144.7	148.8		4.1
Blenheim.....	332.4	345.8	386.0		40.2
Blyth.....	77.7	91.4	85.8	5.6	
Bolton.....	101.5	122.4	118.4	4.0	
Bothwell.....	109.9	103.2	97.8	5.4	
Brampton.....	1,935.8	2,018.2	2,116.7		108.5
Brantford.....	9,781.5	10,140.8	9,343.2	797.6	
Brantford Township.....	390.1	630.0	542.5	87.5	
Bridgen.....	118.7	81.7	86.0		4.3
Brussels.....	124.3	123.3	136.7		13.4
Burford.....	136.8	138.6	141.3		2.7
Burgessville.....	60.7	49.2	56.3		7.1
Bridgeport.....	177.0	153.8	104.0	49.8	
Caledonia.....	281.5	323.6	344.5		20.9
Campbellville.....	21.4	27.3	28.1		0.8
Cayuga.....	72.4	85.1	102.8		17.7
Chatham.....	4,382.1	4,637.2	4,188.1	449.1	
Chippawa.....	211.8	260.0	270.8		10.8
Clifford.....	52.5	51.6	64.3		12.7
Clinton.....	443.9	399.4	415.5		16.1
Comber.....	152.8	147.4	143.1	4.3	
Courtright.....	36.2	49.6	47.5	2.1	
Cottam.....	49.6	59.0	73.7		14.7
Dashwood.....	76.1	62.6	69.3		6.7
Delaware.....	32.1	36.4	38.8		2.4
Dorchester.....	70.4	72.2	75.7		3.5
Drayton.....	82.0	86.1	89.0		2.9
Dresden.....	251.8	278.0	291.9		13.9
Drumbo.....	70.4	65.4	53.6	11.8	
Dublin.....	77.6	40.2	45.5		5.3
Dundas.....	1,454.4	1,555.0	1,447.7	107.3	
Dunnville.....	603.2	668.9	758.7		89.8
Dutton.....	209.1	210.4	212.6		2.2
East Windsor.....	3,989.2	3,567.0	3,072.4	494.6	
Elmira.....	1,016.1	1,067.0	760.8	306.2	
Elora.....	396.8	401.6	422.2		20.6
Embro.....	74.8	79.7	81.4		1.7
Erieau.....	50.2	46.2	60.3		14.1
Erie Beach.....	10.0	9.8	16.7		6.9
Etobicoke Township.....	2,494.1	2,942.4	3,345.7		403.3
Exeter.....	416.2	411.5	407.5	4.0	
Essex.....	312.3	337.8	400.8		63.0

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Fergus.....	573.8	685.5	729.7	.....	44.2
Forest.....	263.4	269.9	290.8	.....	20.9
Fonthill.....	104.5	123.2	126.7	.....	3.5
Galt.....	6,748.7	7,089.6	6,854.3	235.3	.....
Georgetown.....	755.4	854.7	923.8	.....	69.1
Glencoe.....	163.8	147.4	159.5	.....	12.1
Goderich.....	1,035.1	1,160.8	1,068.7	92.1	.....
Granton.....	86.0	80.0	47.9	32.1	.....
Guelph.....	7,630.1	8,154.8	7,423.8	731.0	.....
Hagersville.....	1,278.8	1,214.5	1,136.7	77.8	.....
Hamilton.....	51,943.6	65,685.8	60,434.8	5,251.0	.....
Harriston.....	270.2	268.1	292.9	.....	24.8
Harrow.....	205.3	300.2	349.8	.....	49.6
Hensall.....	90.6	152.4	146.1	6.3	.....
Hespeler.....	1,071.8	1,134.6	1,453.1	.....	318.5
Highgate.....	119.3	117.3	73.3	44.0	.....
Humberstone.....	305.6	268.1	331.1	.....	63.0
Ingersoll.....	2,173.2	2,104.6	2,103.3	1.3	.....
Jarvis.....	150.1	169.3	172.9	.....	3.6
Kingsville.....	388.7	411.5	451.7	.....	40.2
Kitchener.....	14,457.0	16,042.8	16,315.3	.....	272.5
Lambeth.....	107.7	97.2	107.2	.....	10.0
Leamington.....	871.3	1,272.1	1,042.9	229.2	.....
Listowel.....	727.9	833.8	855.2	.....	21.4
London.....	25,884.4	28,337.6	28,954.0	.....	616.4
London Township V.A.....	175.0	230.2	293.5	.....	63.3
Lucan.....	155.9	175.6	167.1	8.5	.....
Lynden.....	70.7	67.5	85.1	.....	17.6
LaSalle.....	230.5	265.4	237.5	27.9	.....
Markham.....	146.4	155.3	205.0	.....	49.7
Merlin.....	130.0	162.2	174.2	.....	12.0
Merritton.....	1,075.1	2,300.3	2,603.2	.....	302.9
Milton.....	1,092.3	1,124.4	1,024.4	100.0	.....
Milverton.....	585.8	359.2	343.1	16.1	.....
Mimico.....	1,857.9	2,010.7	2,013.4	.....	2.7
Mimico Asylum.....	65.0	65.0	65.0	.....	.....
Mitchell.....	451.7	393.4	469.1	.....	75.7
Moorefield.....	56.0	54.0	30.8	23.2	.....
Mount Brydges.....	68.3	76.9	80.4	.....	3.5
Newbury.....	38.2	33.5	40.2	.....	6.7
New Hamburg.....	584.1	413.3	492.9	.....	79.6
Newmarket.....	697.0	978.5	1,069.7	.....	91.2
New Toronto.....	4,871.2	5,533.5	5,069.7	463.8	.....
Niagara Falls.....	8,910.2	9,408.8	9,864.6	.....	455.8
Niagara-on-the-Lake.....	494.6	525.5	575.1	.....	49.6
Norwich.....	322.5	315.0	321.7	.....	6.7
Oil Springs.....	263.8	180.0	182.4	.....	2.4
Ontario Agricultural College.....	312.3	270.8	320.3	.....	49.5
Ontario Central Reformatory.....	263.4	208.5	229.2	.....	20.7
Otterville.....	72.4	74.1	68.0	6.1	.....

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Palmerston	496.6	438.4	444.9	.....	6.5
Paris	1,284.2	1,267.1	1,305.8	.....	38.7
Parkhill	138.0	147.4	150.1	.....	2.7
Petrolia	670.6	758.2	794.4	.....	36.2
Plattsville	45.9	51.7	49.6	2.1	.....
Point Edward	238.6	398.1	664.9	.....	266.8
Port Colborne	1,282.8	1,481.2	1,595.2	.....	114.0
Port Credit	475.9	485.2	591.1	.....	105.9
Port Dalhousie	327.7	380.7	423.6	.....	42.9
Port Dover	251.3	280.8	296.9	.....	16.1
Port Rowan	54.3	59.2	74.4	.....	15.2
Port Stanley	154.1	184.9	218.5	.....	33.6
Preston	3,224.9	3,502.7	3,341.8	160.9	.....
Princeton	36.2	75.0	80.4	.....	5.4
Queenston	85.8	85.8	83.1	2.7	.....
Richmond Hill	201.4	249.3	257.9	.....	8.6
Ridgetown	430.3	461.1	461.1	.....	.....
Riverside	1,126.0	1,254.7	1,238.3	16.4	.....
Rockwood	92.5	70.1	107.2	.....	37.1
Rodney	119.5	130.6	139.8	.....	9.2
St. Catharines	8,034.4	9,061.9	8,999.2	62.7	.....
St. Clair Beach	71.7	88.4	80.4	8.0	.....
St. George	154.4	143.4	134.0	9.4	.....
St. Jacobs	189.2	203.4	246.5	.....	43.1
St. Marys	1,349.8	1,231.9	1,402.1	.....	170.2
St. Thomas	5,051.2	5,502.7	5,624.6	.....	121.9
Sarnia	5,997.5	6,447.6	6,950.3	.....	502.7
Sandwich	3,746.7	3,664.9	3,861.4	.....	196.5
Scarboro Township	2,320.3	2,294.8	2,788.2	.....	493.4
Seaforth	572.0	663.4	466.1	197.3	.....
Simcoe	1,017.7	1,153.3	1,365.1	.....	211.8
Springfield	124.6	91.1	85.1	6.0	.....
Stamford Township	1,429.1	1,636.0	1,843.2	.....	207.2
Stouffville	115.2	128.1	155.5	.....	27.4
Stratford	7,124.8	7,120.8	7,760.5	.....	639.7
Strathroy	781.7	891.2	907.3	.....	16.1
Sutton	103.2	107.2	144.4	.....	37.2
Tavistock	442.3	420.9	431.6	.....	10.7
Tecumseh	319.1	444.7	438.3	6.4	.....
Thamesford	137.4	142.7	153.5	.....	10.8
Thamesville	186.3	210.4	197.8	12.6	.....
Theford	54.9	51.3	52.5	.....	1.2
Thornedale	61.0	59.0	40.2	18.8	.....
Thorold	801.3	1,448.0	2,170.9	.....	722.9
Tilbury	528.1	514.7	502.7	12.0	.....
Tillsonburg	738.6	841.8	811.0	30.8	.....
Toronto	241,366.0	270,628.0	280,280.0	.....	9,652.0
Toronto Township	1,198.6	1,268.1	1,612.3	.....	344.2
Walkerville	6,353.9	8,729.2	8,256.0	473.2	.....
Wallaceburg	3,269.4	3,451.7	1,808.3	1,643.4	.....
Wardsville	32.1	29.5	32.1	.....	2.6
Waterdown	195.8	202.3	246.0	.....	43.7
Waterford	396.8	382.0	371.3	10.7	.....
Wateloo	2,948.4	3,203.3	2,814.7	388.6	.....

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Watford.....	201.0	171.6	167.5	4.1	.....
Welland.....	3,433.0	4,248.0	3,848.5	39.5	.....
Wellesley.....	133.2	104.6	126.6	.....	22.0
West Lorne.....	324.1	345.8	273.4	72.4	.....
Weston.....	2,398.8	2,957.1	3,150.1	.....	193.0
Wheatley.....	117.1	134.8	142.0	.....	7.2
Windsor.....	27,616.9	27,712.3	28,087.8	.....	375.5
Woodbridge.....	217.1	209.1	288.2	.....	79.1
Woodstock.....	4,781.5	4,977.2	4,879.3	97.9	.....
Wyoming.....	58.7	50.6	61.0	.....	10.4
York, East Township.....	3,382.0	4,017.4	4,788.2	.....	770.8
York, North Township.....	1,240.5	1,414.2	2,143.4	.....	729.2
Zurich.....	87.9	83.2	92.5	.....	9.3

In some instances the decreases shown are due entirely or in part to transference of load from a municipality to a newly established rural power district.

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Acton.....	2.0	2.0	2.0	.....	.....
Alvinston.....	.....	1.0	1.6	.....	0.6
Amherstburg.....	404.5	533.1	525.2	7.9	.....
Aylmer.....	133.5	155.3	245.3	.....	90.0
Ayr.....	9.0	16.5	24.5	.....	8.0
Baden.....	148.7	193.1	253.7	.....	60.6
Beamsville.....	537.5	625.3	915.5	.....	290.2
Belle River.....	158.2	261.0	263.2	.....	2.2
Blenheim.....	82.7	134.7	123.1	11.6	.....
Brant.....	259.8	291.4	451.6	.....	160.2
Bond Lake.....	520.2	522.8	715.3	.....	192.5
Bothwell.....	109.5	109.5	124.5	.....	15.0
Brampton.....	64.2	109.1	119.2	.....	10.1
Bridgen.....	21.9	27.0	33.2	.....	6.2
Burford.....	68.0	93.5	105.9	.....	12.4
Caledonia.....	102.1	136.7	209.2	.....	72.5
Chatham.....	254.8	411.0	470.1	.....	59.1
Chippawa.....	108.6	99.2	120.6	.....	21.4
Clinton.....	37.9	61.8	90.1	.....	28.3
Delaware.....	174.5	201.1	247.4	.....	46.3
Dorchester.....	248.1	290.8	321.4	.....	30.6
Dresden.....	2.0	3.7	10.0	.....	6.3
Drumbo.....	58.7	36.3	85.9	.....	49.6
Dundas.....	341.9	415.3	355.6	59.7	.....
Dunnville.....	3.2	4.0	4.0	.....	.....
Dutton.....	23.2	82.5	100.0	.....	17.5

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930—Continued

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Elora.....	40.1	43.3	84.0		40.7
Elmira.....	21.4	24.1	40.8		16.7
Essex.....	140.9	214.9	209.5	5.4	
Exeter.....	144.1	160.0	194.4		34.4
Forest.....	2.9	6.3	16.3		10.0
Galt.....	105.7	131.4	154.7		23.3
Georgetown.....	39.5	47.4	123.1		75.7
Goderich.....	35.8	42.9	65.0		22.1
Grantham.....	417.8	434.1	479.6		45.5
Guelph.....	58.8	115.5	348.5		233.0
Haldimand.....	22.0	40.0	228.2		188.2
Harrow.....	165.3	205.2	349.8		144.6
Ingersoll.....	117.0	361.0	303.2	57.8	
Jordan.....	44.1	207.5	294.6		87.1
Keswick.....	116.0	151.4	209.5		58.1
Kingsville.....	355.6	402.3	545.3		143.0
Listowel.....	50.6	63.5	96.5		33.0
London.....	1,014.7	1,222.6	1,420.3		197.7
Lucan.....	41.1	41.9	66.5		24.6
Lynden.....	117.2	101.6	143.0		41.4
Markham.....	181.9	208.4	296.2		87.8
Merlin.....		84.1	144.7		60.6
Milton.....	73.3	105.1	99.8	5.3	
Milverton.....	29.7	36.8	45.5		8.7
Mitchell.....	100.0	123.6	161.0		37.4
Newmarket.....	182.7	207.3	213.8		6.5
Niagara.....	609.7	523.0	504.5	18.5	
Norwich.....	183.8	198.4	202.0		3.6
Oil Springs.....	41.8	38.5	37.1	1.4	
Palmerston.....	3.0	3.8	4.0		0.2
Petrolia.....	5.3	5.3	27.0		21.7
Preston.....	508.5	607.7	770.4		162.7
Ridgetown.....	239.3	255.3	328.7		73.4
Saltfleet.....	545.9	522.2	663.8		141.6
Sandwich.....	850.9	1,022.4	1,060.9		38.5
Sarnia.....	328.1	435.6	427.7	7.9	
Scarboro Township.....	81.6	205.0	285.5		80.5
Seaforth.....	62.0	23.7	36.5		12.8
Stratford.....	155.8	136.2	167.8		31.6
St. Jacobs.....	163.3	165.1	238.7		73.6
St. Marys.....	96.4	142.7	185.7		43.0
St. Thomas.....	430.2	391.4	460.6		69.2
Simcoe.....	106.3	122.0	155.5		33.5
Stamford.....	105.2	161.6	174.9		13.3
Strathroy.....	23.9	31.9	37.2		5.3
Streetsville.....	119.6	274.0	342.5		68.5

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930—Continued

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Tavistock.....	82.9	110.2	141.1	.....	30.9
Thamesville.....	59.4	67.0	97.7	.....	30.7
Tilbury.....	103.2	38.6	67.3	.....	28.7
Tillsonburg.....	226.2	239.0	279.9	.....	40.9
Wallaceburg.....	128.7	137.6	114.7	22.9	.....
Walsingham.....	35.2	45.8	76.8	.....	31.0
Walton.....	41.6	70.7	66.7	4.0	.....
Waterford.....	61.0	75.6	119.0	.....	43.4
Waterdown.....	241.0	389.3	491.2	.....	101.9
Welland.....	970.0	1,218.6	1,095.2	123.4	.....
Woodbridge.....	356.6	559.8	538.3	21.5	.....
Woodstock.....	395.3	394.3	501.1	.....	106.8

NIAGARA SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1929	Decrease	Increase
Ailsa Craig.....	Sept. 9, 1930	0.8	0.8	.....	.....
Harriston.....	Dec. 1, 1929	3.0	4.8	.....	1.8
Watford.....	Dec. 16, 1929	1.7	11.5	.....	9.8

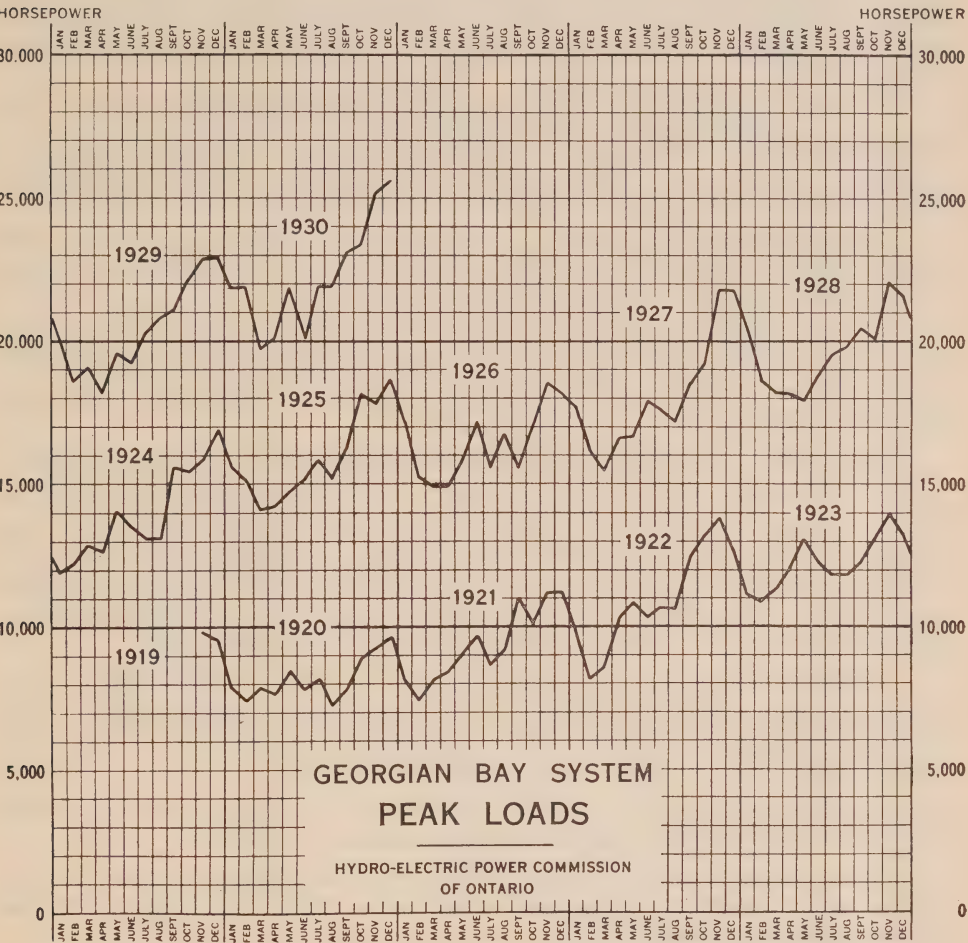
GEORGIAN BAY SYSTEM

The load on this system shows an increase notwithstanding adverse industrial conditions, the maximum peak being about six per cent greater than the maximum peak for the previous year and the average yearly load showing an increase of eight per cent.

To assist in carrying the heavy loads of November and December, 1929, the Owen Sound steam plant and Canadian Pacific Railway Company's steam plant at Port McNicoll were operated in parallel with the Commission's generating stations. This steam-generated power was of considerable assistance in carrying the system load during the fall period when the storage water was much depleted. The shortage of water available for power plant operation was relieved by a thaw in January.

The sources of power supply for this system were augmented during the past year by the addition of the Hanover frequency changer station which is supplied over a 110,000-volt line from Kitchener station on the Niagara system.

This station makes power from Niagara Falls available for use on the Georgian Bay system, up to the capacity of the equipment installed. The frequency changer set has a normal rating of 5,000 kv-a., but it was operated at somewhat heavier loads in the fall of 1929 to assist in the conservation of storage water. This station was placed in service September 26, 1930, and normally operates in parallel with the total system.



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier Annual Reports. The load of the new district at Bala is not included in above graph, records being incomplete.

A new 22,000-volt line was constructed from Kilsyth to Tara, and continued on to Southampton. Tara was formerly served by a 4,000-volt line from Kilsyth, but a transformer station of 75-kv-a. capacity was erected at Tara which is now served directly from the new 22,000-volt line. The 4,000-volt line between Kilsyth and Tara stations now serves rural load, and can be used in emergencies as a low-tension tie line.

A new distributing station was also erected at Southampton, with a transformer capacity of 300 kv-a., and the Southampton municipal load was carried by the Eugenia district, commencing in July.

A tie line was erected from Saugeen junction (on the Hanover to Chesley 22,000-volt line) to Derby Mills junction (on the Kilsyth to Tara 22,000-volt line). This forms a loop on the 22,000-volt lines, including Kilsyth junction, Derby Mills junction, Hanover frequency changer station and Eugenia power house, with two sources of power supply, which should tend towards continuity of service and more flexible operation of the north and west portions of the system.

A tie line was also erected between the Big Chute powerhouse and the two generating plants at Bala, by way of Ragged rapids on the Muskosh river. A transformer station of 450-kv-a. capacity was erected at Bala, and additional power was supplied to the Bala district from the Big Chute over this tie line.

Two auto-transformers with a total capacity of 3,000 kv-a. were installed at Eugenia power house on the Severn-Eugenia tie line to control the voltage of the power received from the Severn district.

A new 22,000-volt line was built from Greenbank south to Uxbridge and Port Perry, replacing the 4,000-volt lines, and transformer stations of 300-kv-a. capacity were erected at both these towns. Greenbank step-down station was removed from service.

Other new transformer stations erected during the year were:—Midhurst 75 kv a., Utterson 300 kv-a., Fergusonvale 75 kv-a., and Painswick 300 kv-a.

Transformer capacity was increased at Chesley distributing station from 450 kv-a. to 750 kv-a.; at Kirkfield from 225 kv-a. to 450 kv-a.; at Innisfil from 100 kv-a. to 450 kv-a., and service changed from 4,600-volt single-phase to 8,000-volt, 3-phase. An additional bank of 3,000-kv-a. capacity was installed at Barrie, and connected 3-phase, 4-wire, 4,000-volt on the low tension side.

Failures occurred in the 1,500-kv-a. auto-transformer at Wasdells, in one transformer of a three-phase bank at Penetang, and in one transformer of a three-phase bank at Meaford. These transformers were all sent to the manufacturer for repairs and were then returned to service.

The line entrance structure was rebuilt at Big Chute, replacing certain parts which had become defective through length of service.

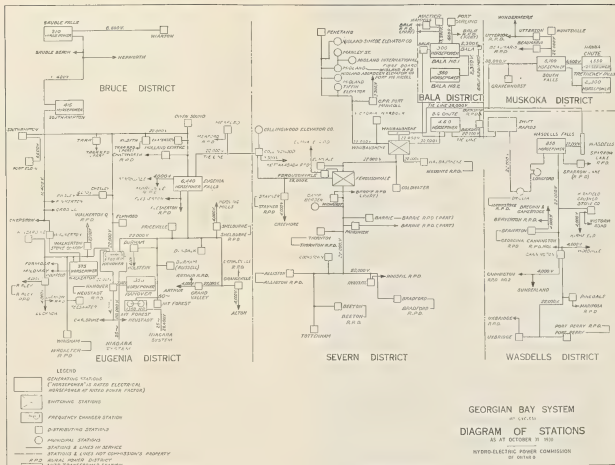
A new timber floor was laid on the deck of the headworks, and new steel trash racks provided to replace old wood racks. New stop logs at the head of the canal were provided.

Extensive repairs were made to the concrete of the Eugenia dam, and also to the concrete in the Wasdells power house and dam, the concrete in both cases having shown signs of disintegration.

A failure occurred in the armature winding of the No. 2 generator at Bala power house in July, and defective coils were replaced.

A new draft tube and curb ring for turbine were ordered for the No. 2 power house at Bala owing to the old draft tube showing defects, and the installation of the new parts was under way at the end of the fiscal year.

Highway alterations at numerous points on the various divisions made it necessary to erect a number of detours and to relocate and rebuild lines to conform with new highway locations.



Extra pole guying was carried out on a number of line sections which have, in the past, been most affected by storms.

A number of line switches of modern design were erected in the Severn, Eugenia and Wasdells districts, replacing obsolete switches.

The usual program of line maintenance was carried out, which included pole treatment with preservative, insulator testing and replacement, straightening poles, pulling up guys, pole stubbing and tree trimming. Yearly inspection and routine maintenance on plant equipment was carried out by maintenance men at all plants, with special adjustment at several plants where required.

The plants and lines of the Public Utilities Consolidated Corporation in Bruce county, with the exception of a Diesel engine standby plant, were taken over by the Commission in September, 1930. This section will be known as the Bruce district of the Georgian Bay system.

To permit the removal of the Diesel engine by the owners and protect service to the customers, alterations were made at Southampton generating station and Southampton distributing station to provide service to the municipality of Port Elgin from the Eugenia lines, while the service to Wiarton and Hepworth was provided by one machine at Southampton hydraulic plant and the machine at Sauble Falls hydraulic plant.

A short 22,000-volt line was built from the line serving Kincardine to the Walkerton generating station, and a 750-kv-a. transformer station erected to step the line voltage down to the generator voltage of the power house. This tie line is to protect the service to Walkerton and district in case of water shortage at Walkerton power house.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
SEVERN DISTRICT					
Alliston.....	189.0	183.6	221.9		38.3
Barrie.....	1,878.5	1,978.4	2,285.6		307.2
Beeton.....	124.1	117.9	119.8		1.9
Bradford.....	134.0	133.5	135.3		1.8
Camp Borden.....	279.0	300.0	321.7		21.7
Coldwater.....	130.0	274.8	277.5		2.7
Collingwood.....	1,190.0	1,613.9	1,506.8	107.1	
Cookstown.....	49.6	48.5	63.5		15.0
Creemore.....	94.3	116.6	101.9	14.7	
Elmvale.....	158.7	148.8	160.8		12.0
Midland.....	4,190.3	3,559.0	3,115.2	443.8	
Penetang.....	521.4	587.9	605.9		18.0
Port McNichol.....	82.4	84.4	88.4		4.0
Stayner.....	123.3	104.0	140.8		36.8
Thornton.....	29.0	26.8	23.6	3.2	
Tottenham.....	59.5	70.2	76.8		6.6
Victoria Harbour.....	69.7	73.7	71.0	2.7	
Waubashene.....	39.4	37.2	40.9		3.7

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
EUGENIA DISTRICT					
Arthur.....	103.2	116.6	121.1		4.5
Carlsruhe and Neustadt.....	99.2	30.0	41.5		11.5
Chatsworth.....	52.9	49.6	52.2		2.6
Chesley.....	395.4	412.8	428.9		16.1
Dundalk.....	157.3	136.7	140.7		4.0
Durham.....	565.7	583.1	601.9		18.8
Elmwood.....	45.5	44.2	52.2		8.0
Flesherton.....	76.6	82.6	101.6		19.0
Grand Valley.....	107.2	110.7	99.2	11.5	
Hanover.....	914.2	960.3	1,136.7		176.4
Holstein.....	17.7	17.0	17.0		
Hornings Mills.....	8.0	8.0	8.0		
Kincardine.....	341.8	423.6	449.0		25.4
Lucknow.....	158.2	197.6	229.2		31.6
Markdale.....	140.2	150.9	139.9		11.0
Meaford.....	333.8	361.9	368.6		6.7
Mount Forest.....	286.8	312.3	384.7		72.4
Orangeville.....	473.5	522.3	576.7		54.4
Owen Sound.....	2,776.1	3,311.0	3,183.6	127.4	
Paisley.....	112.6	118.6	138.0		19.4
Priceville.....	11.5	14.2	15.4		1.2
Ripley.....	60.3	52.9	55.6		2.7
Shelburne.....	300.1	198.7	233.7		35.0
Tara.....	57.3	59.3	72.7		13.4
Teeswater.....	142.0	81.7	116.0		34.3
Wingham.....	319.0	422.2	392.2	30.0	
WASDELLS DISTRICT					
Beaverton.....	197.0	229.2	269.4		40.2
Brechin.....	52.2	50.9	52.0		1.1
Cannington.....	137.5	152.8	172.9		20.1
Kirkfield.....	22.0	33.5	35.1		1.6
Port Perry.....	161.2	171.5	240.4		68.9
Sunderland.....	61.0	53.6	63.0		9.4
Uxbridge.....	189.0	146.2	180.9		34.7
Victoria Road.....	9.7	10.0	11.4		1.4
Woodville.....	51.3	48.0	55.0		7.0
MUSKOKA DISTRICT					
Gravenhurst.....	538.8	565.7	553.0	12.7	
Huntsville.....	1,029.5	965.1	963.8	1.3	

GEORGIAN BAY SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Windermere.....	June 30, 1930	33.5	26.8	6.7	

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
SEVERN DISTRICT					
Barrie.....	38.4	61.8	159.3		97.5
Bradford.....		4.3	5.4		1.1
Buckskin.....	10.4	17.4	17.7		0.3
Elmvale.....	15.0	14.4	46.2		31.8
Innisfil.....	29.5	54.9	65.0		10.1
Nottawasaga.....	28.5	29.6	32.1		2.5
Stayner.....	36.2	43.4	45.5		2.1
EUGENIA DISTRICT					
Chatsworth.....		10.7	11.4		0.7
Flesherton.....	4.2	3.8	5.7		1.9
Markdale.....	0.5	0.5	1.6		1.1
Orangeville.....	30.0	16.3	27.8		11.5
Shelburne.....	2.8	4.3	4.9		0.6
Tara.....	15.0	28.7	54.8		26.1
Walkerton.....	1.5	1.5	1.5		
Wroxeter.....		36.2	47.5		11.3
WASDELLS DISTRICT					
Cannington No. 1.....	17.0	19.0	19.0		
Cannington No. 2.....	14.7	28.8	21.7	7.1	
Georgina.....	33.5	33.5	36.2		2.7
Mariposa.....	67.7	101.8	131.3		29.5
Port Perry.....	22.0	64.0	78.6		14.6
Sparrow Lake.....	55.6	56.9	67.0		10.1
Uxbridge.....	8.0	34.4	85.8		51.4
MUSKOKA DISTRICT					
Beaumaris.....	41.5	50.9	87.1		36.2

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Alliston.....	Nov. 13, 1929	25.0	74.2		49.2
Arthur.....	Dec. 11, 1929	1.2	1.2		
Beaverton.....	Aug. 5, 1930	6.0	1.0	5.0	
Hawkeston.....	July 14, 1930	38.7	45.1		6.4
Medonte.....	July 1, 1930	6.0	2.0	4.0	
Thornton.....	Aug. 18, 1930	5.0	13.4		8.4
Utterson.....	June 30, 1930	46.9	9.4	37.5	

EASTERN ONTARIO SYSTEM

This system incorporates the five systems formerly known as the Central Ontario and Trent, St. Lawrence, Rideau, Ottawa and Madawaska systems, and serves the entire eastern part of the Province. The combining of these systems has proved to be a decided betterment in respect of administration and operation, particularly so in the case of operation, in that all generated and purchased power is, with slight exception, now directly under the control of a central load dispatcher, and the economic advantages are fully realized in the transfer of surplus and emergency power between the various districts forming the system. It might be well to note here that the interchange of power among these districts was made possible by the construction during the years 1928 and 1929 of a high tension line network extending to Ottawa, Smiths Falls, Brockville and Kingston. These lines do not extend as yet to the Madawaska district, and as there is no physical connection between that district and the balance of the Eastern Ontario system, the operation of the Madawaska district was carried on separately.

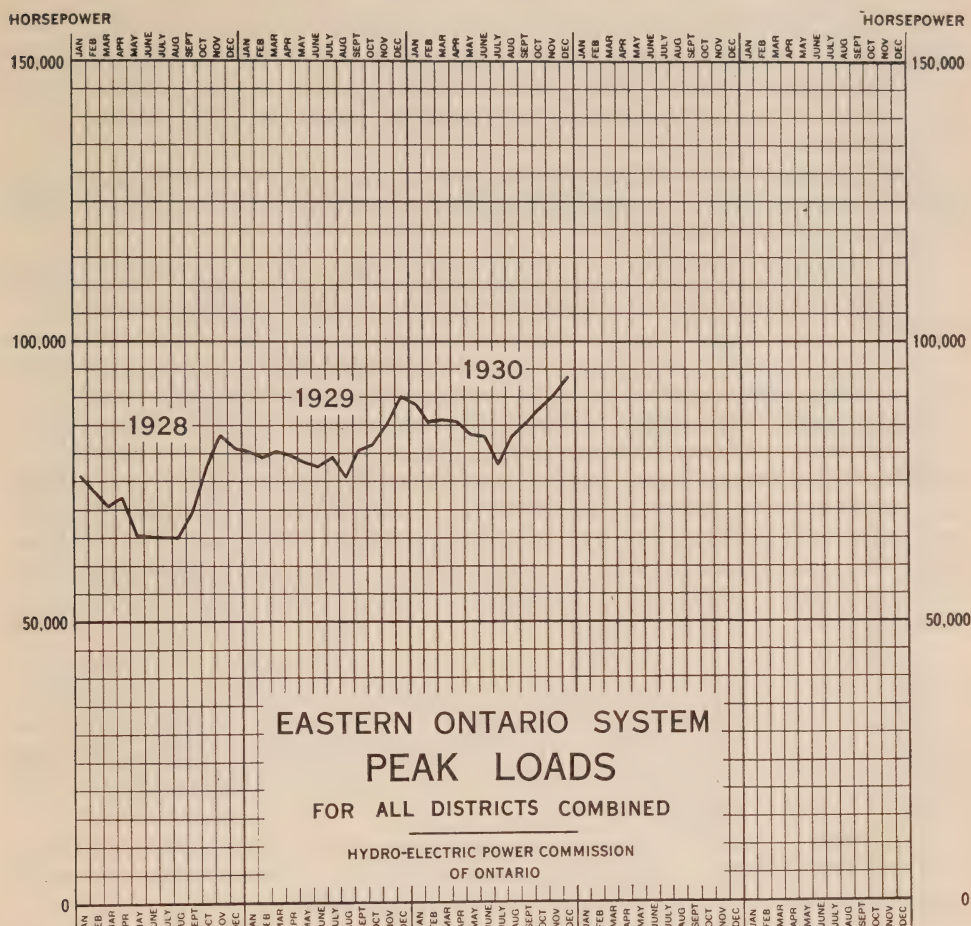
Operating conditions generally on the Eastern Ontario system have been satisfactory throughout the fiscal year. The demand for power has again shown an increase, which compares very favourably with the average increase of previous years, and is especially gratifying in view of the prevailing general business depression. For the purpose of comparison, a graph is shown herein which clearly illustrates the load growth on this system. This graph indicates the monthly 20 minute composite peak loads, and is not the sum of the individual district peaks which have appeared in previous issues of this Report.

During the year additional transformer capacity was installed at several of the transformer stations. The usual program of station and line maintenance was carried out. Appearances were improved at a number of transformer stations by painting the structures, levelling and grading the land and planting shrubs.

A timber dam was built at Bells rapids for the purpose of conserving water on Bark lake for use at Calabogie generating station during low stream flow periods on the Madawaska river.

Extensions were made to the 44,000-volt transmission lines for the purpose of supplying power to the Kingston elevators and the Lower Lakes Terminal elevators at Prescott. A single-circuit, 33,000-volt wood-pole line was constructed between Calabogie generating station and Burnstown, a distance of nine miles. The No. 4 A.C.S.R. conductors on the 33,000-volt line between Burnstown and Arnprior were replaced with 4/0 A.C.S.R. conductors. A single-circuit 33,000-volt wood-pole line was built from Arnprior to Chats Falls, a distance of approximately twelve miles, for the purpose of supplying power during the construction of the large power development at that point.

Telephone communication with the Madawaska district was established by means of looping the main Toronto-Ottawa telephone line into the Galetta generating station, at which point a small switchboard was installed. Telephone circuits were extended from this point to Arnprior and Calabogie and also to Chats Falls.



NOTE—The Eastern Ontario system includes the Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts, for which separate load graphs are given. The combined load of the total system, as shown on this graph, does not agree arithmetically with the sum of the district peaks due to the diversity in time at which the district peaks occurred.

At Ottawa a new transformer station, having a capacity of 9,000 kv-a., was first made alive on October 28, 1929, and was ready for regular service November 1. This station is at present supplied by one 110,000-volt circuit which taps the main line between Ottawa and Smiths Falls. A second 110,000-volt circuit is almost completed and will be placed in service at an early date. This station was built for the purpose of providing a supply of Gatineau power to meet the increasing load demand in the city of Ottawa and the immediate district.

At the Rideau District temporary station, which is located on the Smiths Falls high-tension transformer station site, the 300 kv-a. transformer was replaced with a 1,500 kv-a. 3-phase transformer which was placed in service on July 22. This transformer is supplied with power from the main 4,160-volt bus, steps the voltage up to 26,400 volts, and feeds into the 26,400-volt network at a nearby point. This makes power available from the Gatineau river and

from other districts in the Eastern Ontario system, augmenting the Rideau district's own supply.

At Cataraqui a new transformer station, having a capacity of 300 kv-a., was placed in service on January 5, supplying power to the Kingston rural power district.

At Cardinal a new outdoor transformer station of 300 kv-a. capacity was placed in service July 5, supplying power to the village of Cardinal and rural customers in the district.

At Consecon a 100 kv-a. transformer station was built and placed in service on June 28 for the purpose of supplying power to the Wellington rural power district.

At the Howard Smith Paper Company's station near Cornwall, extensive improvements were carried out. In order to accommodate additional transformer capacity, an outdoor high-tension structure was added to the station. Two additional outdoor transformers, having a total capacity of 4,500 kv-a., together with the necessary relays and metering equipment, were installed and placed in service on June 29. Four air circuit-breakers were installed, two replacing the indoor high-tension transformer bank oil-breakers, and two on the secondaries of the new outdoor transformers. A storage battery was installed, replacing the dry cell batteries, as a source of tripping potential for the automatic circuit-breakers.

At Brockville one of the 750 kv-a. transformers was replaced by a 1,500 kv-a. transformer, bringing the total capacity of this station to 2,250 kv-a. The high-tension bus was extended to accommodate the new transformer. The low-tension bus was rebuilt. One of the 300-ampere transformer oil-breakers was replaced with a 600-ampere oil-breaker. The dry-cell tripping battery was replaced by a 12-cell storage battery.

At Napanee the 300 kv-a. transformer was replaced by a 750 kv-a. transformer. The capacity at this station is now 1,350 kv-a. The metering equipment was rearranged and a reactive kv-a. meter was installed.

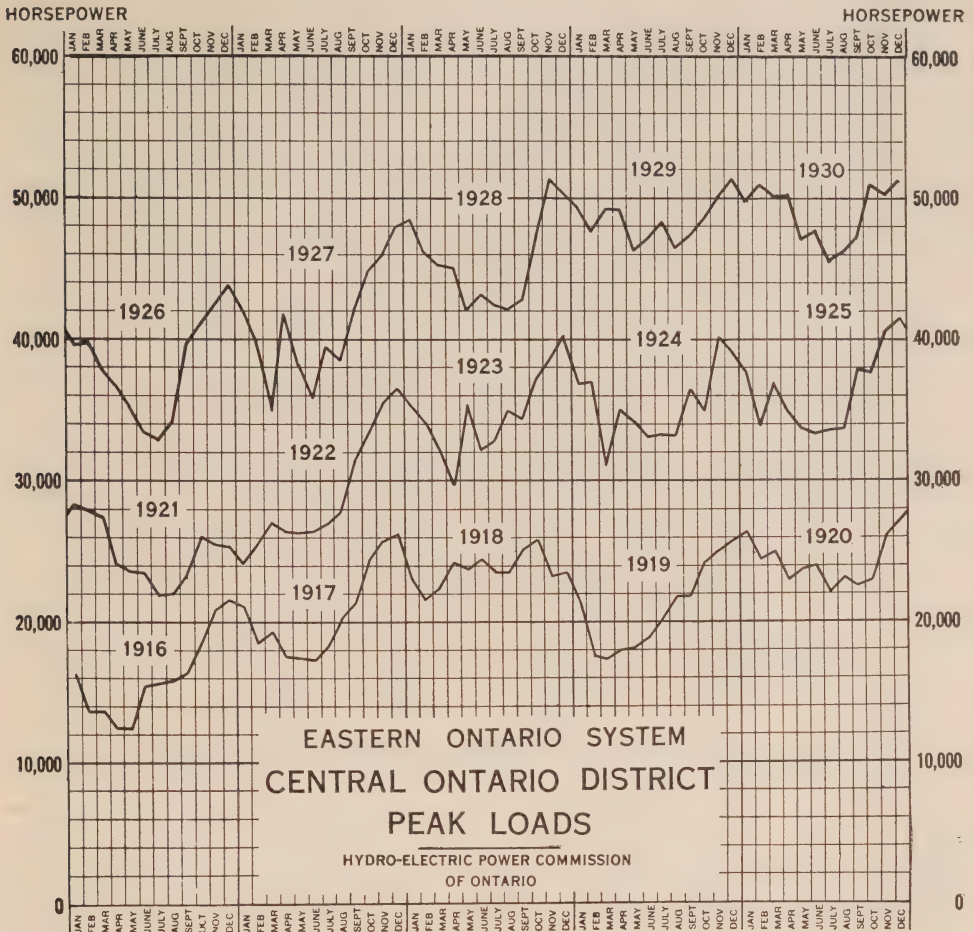
At Carleton Place a second bank, consisting of three single-phase 200 kv-a. transformers, was installed on February 10, thereby increasing the capacity of this station to 1,350 kv-a. A 12-cell storage battery, together with charging equipment, was also installed. Current transformers and ammeters were installed on both transformer banks.

At Perth a 750 kv-a. three-phase outdoor transformer was installed, replacing the bank of three 200 kv-a. single-phase indoor transformers. A polyphase watthour meter was installed on the totalizing metering equipment. The low-tension bus at this station was rebuilt.

At Arnprior a bank of three 500 kv-a. single-phase transformers was installed on April 18, the totalizing metering was rearranged and graphic meters were installed.

At Sidney plant, No. C2, extensive maintenance work was necessary. The governors were all overhauled. The turbines were all inspected and a quantity of driftwood removed from the runners. The lower guide bearing on the turbine exciter was rebabbited. All the low-tension oil-breakers were overhauled. The voltage regulator was overhauled. The floors in the power house were all painted.

At Sidney terminal station, which is the high-tension transformer station for plants No. C2 and No. C5, all the high-tension and low-tension oil-breakers

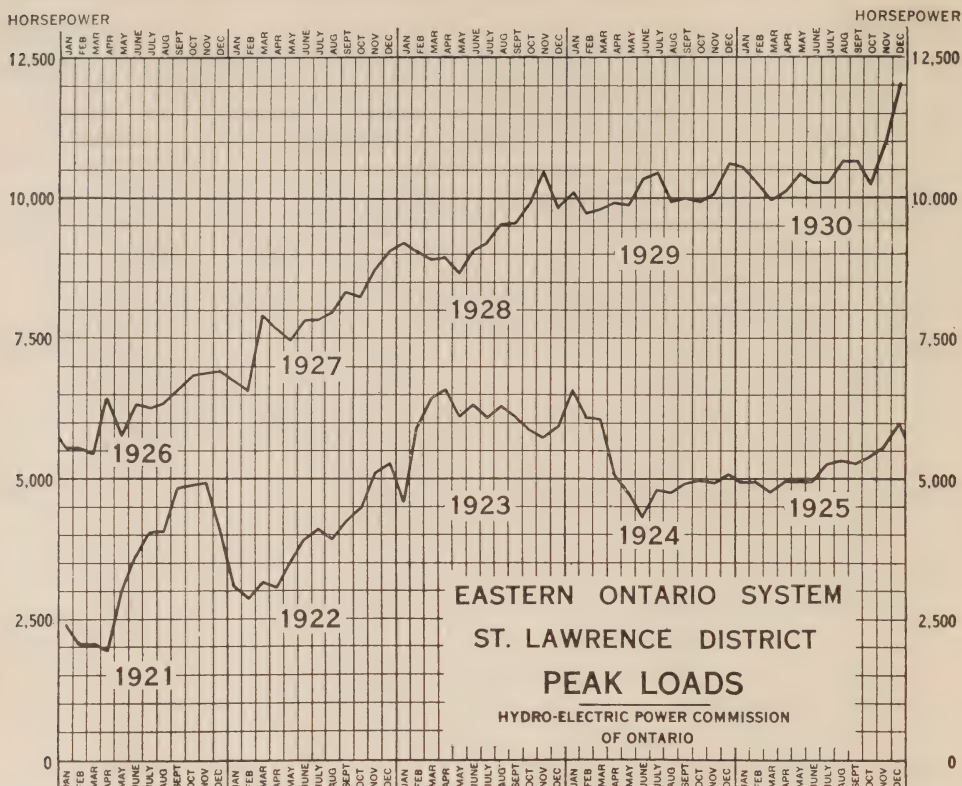


were thoroughly overhauled. All high-tension equipment in the station was inspected and repairs made where necessary. New totalizing graphic meters were installed on the 6,600-volt feeders to Trenton. The floors of the building and parts of the outdoor structure were painted.

At Frankford plant, No. C5, all the turbines were overhauled. A number of broken gates had to be replaced in each turbine. Repairs to the tailrace diversion wall, which was dangerously undermined for a considerable distance, were completed early in the year. The upper guide bearing on one of the generators had to be replaced. The low-tension oil-breakers and the electrolytic lightning arresters were overhauled.

At Meyersburg plant, No. C8, a general inspection was made of the turbines and hydraulic equipment, but no extensive maintenance was found necessary. All the high-tension oil-breakers were overhauled. Two defective insulators were replaced on one of the high-tension disconnecting-switches.

At Hagues Reach plant, No. C9, all three turbines were unwatered and inspected. The speed ring of one unit was replaced. The runner of this unit was eroded but satisfactory repairs were made by welding. All the high-tension

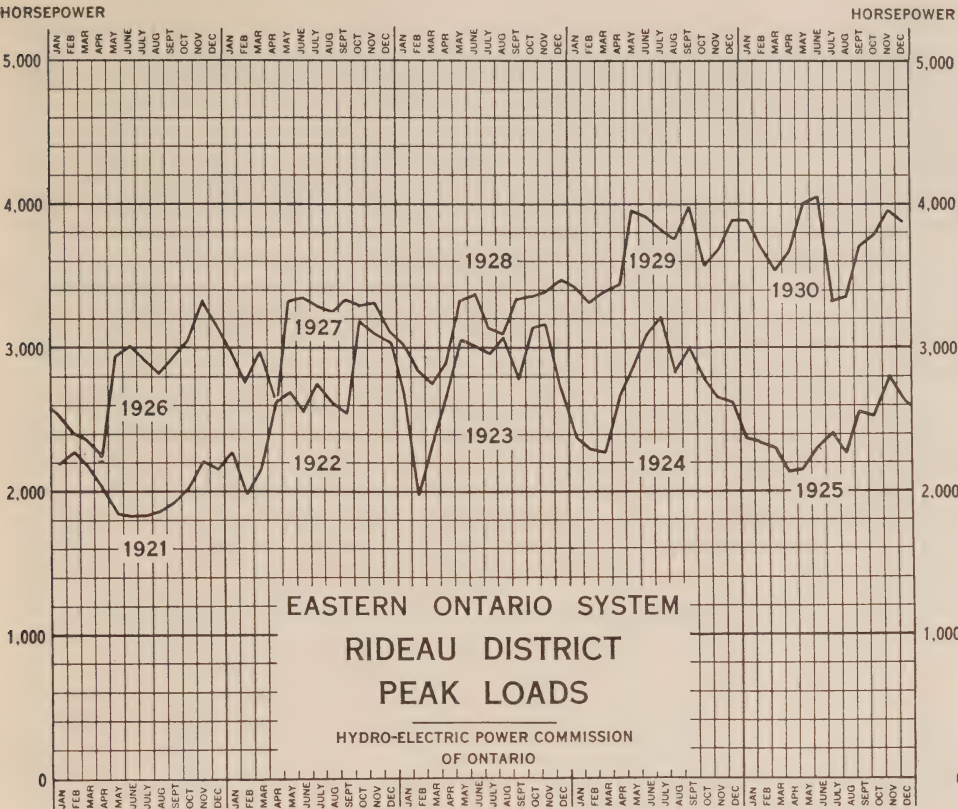


oil-breakers were overhauled. Defective insulators were replaced on the high-tension disconnecting-switches. A new enclosed type of storage battery was installed, replacing the defective battery which was installed when the plant was placed in service in 1925. A short length of the supervisory-control cable, which was in conduit underground, became defective and was replaced by an aerial cable. A considerable amount of painting was done in the power house.

The above two plants are of the automatic supervisory remote-controlled type, which involves a considerable number of relays in an operating sequence. A large number of these relays are necessarily delicate in their structure and it will be appreciated that a regular routine of test and adjustment is necessary. These plants have now been in service for more than five years and have operated very satisfactorily and economically.

At Ranney Falls, No. C10, the plant was unwatered and a thorough inspection of all hydraulic equipment made. The hydro cones of both turbines were inspected under water and both were found to be in good condition. A number of broken gate arms were removed from one turbine. A complete set of gate arms, of a new design having a bronze breaking pin, were installed in this turbine. Two defective guide bearings on one of the generators were rebabited. All the low-tension oil-breakers and one high-tension oil-breaker were overhauled. Pulsating resistances were installed in the voltage regulators. The head gates and the floors of the generator room were painted.

At Seymour plant, No. C11, the forebay was unwatered and the racks cleaned. All turbines and governors were overhauled. A defective bearing



was replaced on the countershaft of one unit. The crown gears on two units were repaired. The outside of the upstream-wall of the power house was wire-brushed and treated with two applications of oil. All the high-tension oil-breakers and one set of electrolytic type high-tension lightning arresters were overhauled. The guide bearing of the turbine exciter was replaced on two occasions. The armature of the turbine exciter was rewound. One defective coil was replaced in one of the generators. Brakes were installed on all five generators. The station low-tension bus was rearranged, and a set of low-tension disconnecting switches installed between the bus and a new station-service feeder. New totalizing metering equipment and directional residual relays were installed. The high-tension neutral was grounded.

At Heely Falls plant, No. C14, all the turbines were unwatered and thoroughly inspected. A large quantity of driftwood was removed from two of the wheel pits. The front and rear glands of all turbines were repacked. A new water cooling coil was installed on the back bearing of one turbine. The relief valves on all units were overhauled. All the high-tension and low-tension oil-breakers and lightning arresters were overhauled. One defective coil was replaced on one of the generators. Three new 44,000-volt rotor-type air-break switches were installed on three of the outgoing high-tension lines. New synchronizing jacks were installed. A new section of control cable was installed between the switchboard and one of the high-tension oil-breakers. Extensive painting was carried out throughout the plant, including all steel sash. The

rusted places of the penstocks were wire-brushed and painted. Extensive repairs were made to the slate roof.

At Auburn plant, No. C18, the forebay was unwatered and the racks cleaned. All governors were overhauled. All turbines were inspected and a considerably quantity of driftwood was removed from one of the wheel pits. Broken gates were replaced in two of the turbines. A new regulating arm was installed on the exciter turbine. Twenty-four new stop-logs were framed and treated with preservative for use when unwatering the forebay. Twenty-four defective coils were replaced in one of the generators. The low-tension electrolytic lightning arresters were overhauled. At Auburn transformer station directional residual ground relays were installed. The high-tension electrolytic lightning arresters were overhauled. All the floors in the station were painted. At Auburn switching towers the high-tension oil-breakers were overhauled.

At Fenelon Falls plant, No. C30, one new high-tension coil and complete new insulation was installed in one of the air-blast transformers which failed in service.

At Calabogie generating station on the Madawaska river, the turbines were inspected and overhauled. New timbers were installed on the head gate. A general inspection was made of all high tension and low tension electrical equipment. A voltage regulator and line-drop compensator were installed and placed in service.

At Galetta generating station on the Mississippi river, a general inspection of all hydraulic and electrical equipment was made. One of the turbines and one governor were overhauled. Synchronizing equipment was installed.

At High Falls generating station on the Mississippi river, no extensive maintenance of hydraulic or electrical equipment was necessary. The iron bands on the penstock were all wire-brushed and painted. All the generators and exciters were thoroughly cleaned and one coat of compound applied. The power-house roof and the interior of the power house were painted.

At Belleville two defective low-tension lightning arresters were replaced. The high-tension oil-breaker was overhauled and one defective bushing was replaced.

At Belleville switching station two of the high-tension oil-breakers were overhauled on five separate occasions. Four of the old rotor-type disconnecting switches were replaced by new double-break disconnecting-switches. New type CR relays were installed on two of the high-tension lines.

At Oshawa condenser station two indicating reactive kv-a. meters were installed. Type CO relays were installed, one for each condenser. The starter on the 1,000 kv-a. condenser was completely overhauled.

At Oshawa transformer station, No. 1, the high-tension and low-tension oil-breakers were overhauled. Voltage jacks were installed on the main and emergency bus potential transformers. Gravity-balance type kw. and r.-kv-a. meters were installed.

At Kingston switching station all the high-tension bus insulators were replaced. The 44,000-volt potential fuses were replaced by a more suitable type.

At Kingston transformer station three of the high-tension transformers were inspected, the cores, windings and water-cooling coils were thoroughly cleaned and the oil was changed in each transformer.

At Lakefield transformer station ground resistance measurements were made, eight new copper ground rods were installed and the ground connections were rearranged. The 6,600-volt lightning arresters were replaced by pellet type arresters. A 75-kw. transformer failed in service, was returned to the manufacturer for repairs, and reinstalled.

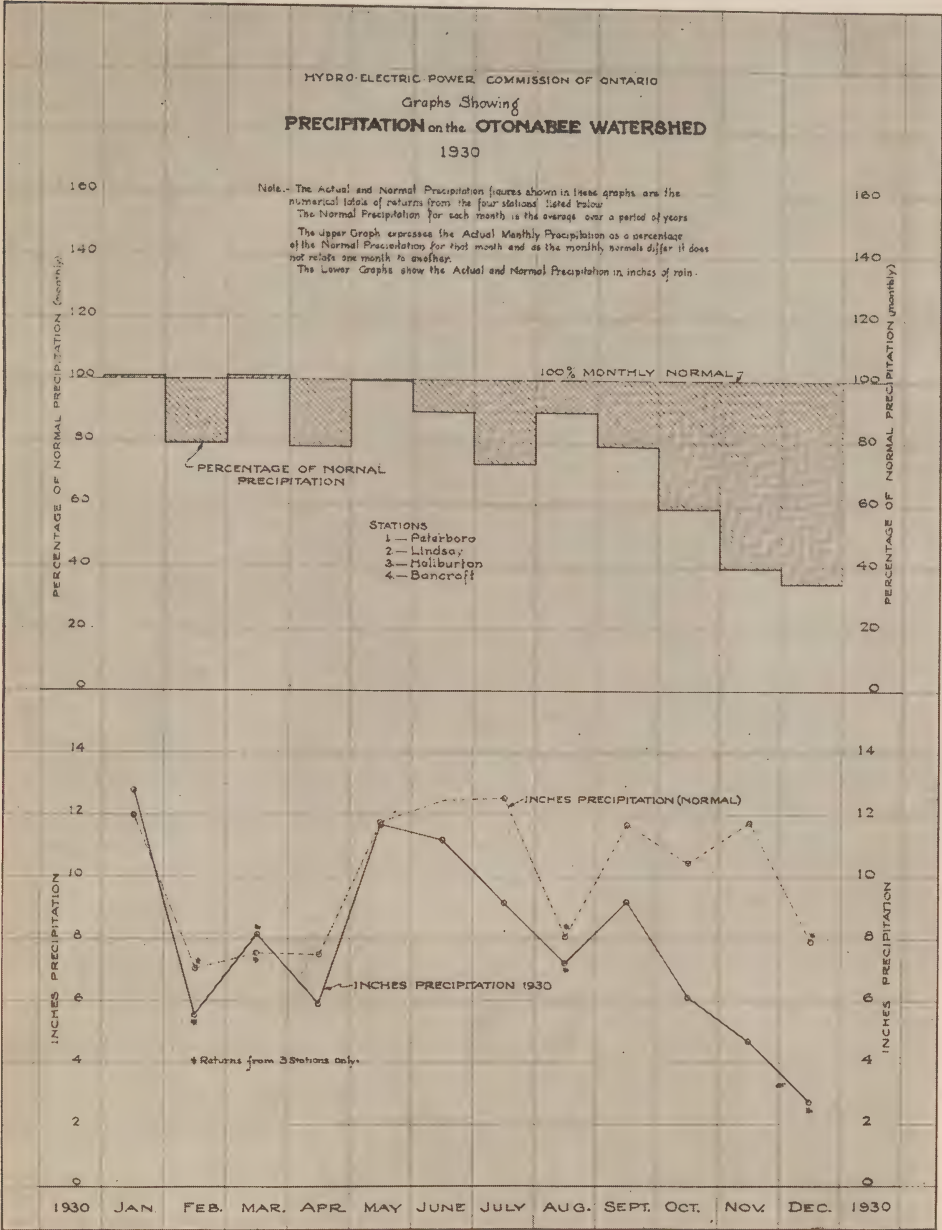


PLATE A—PRECIPITATION DATA

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton,

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent., hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain.

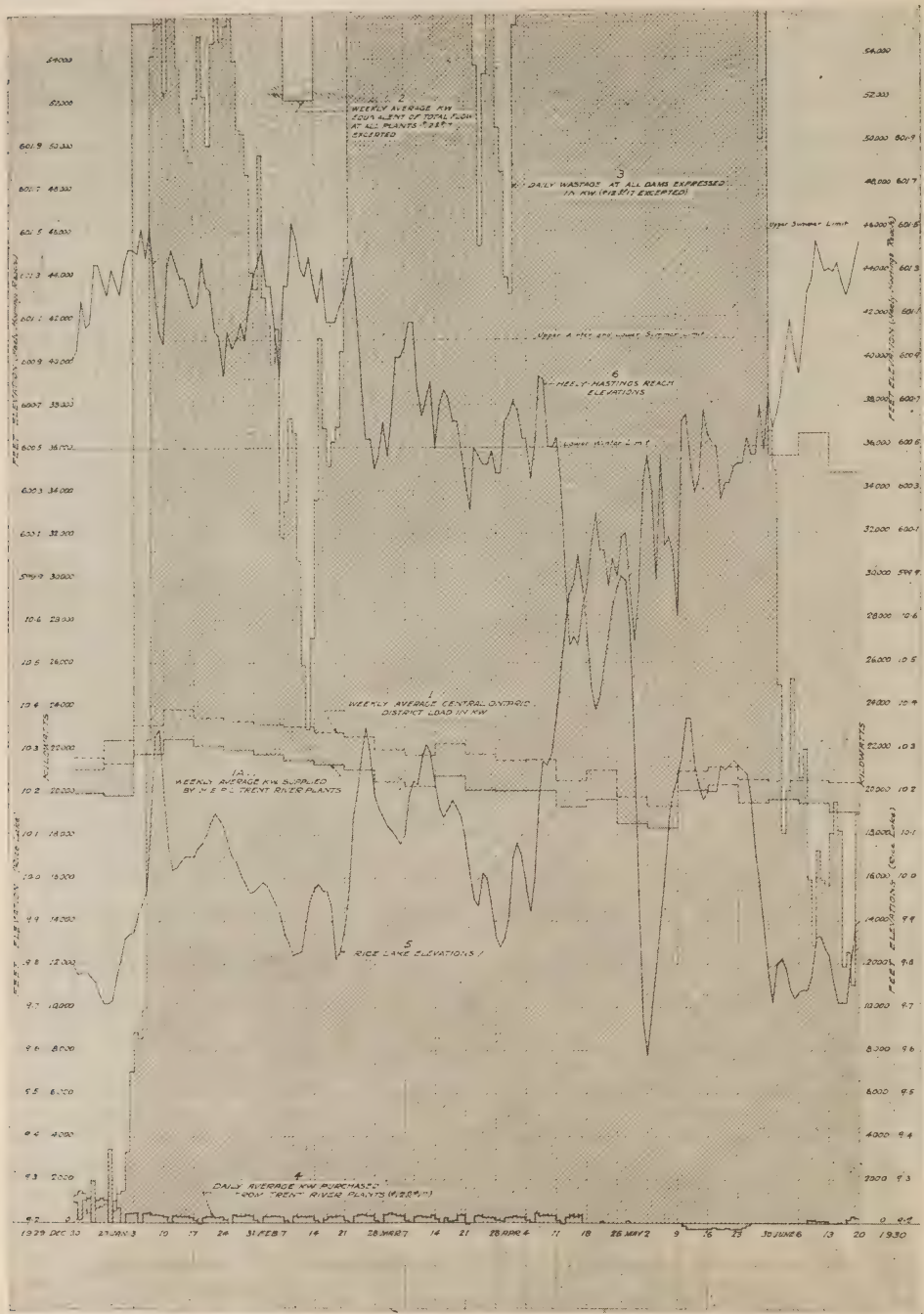


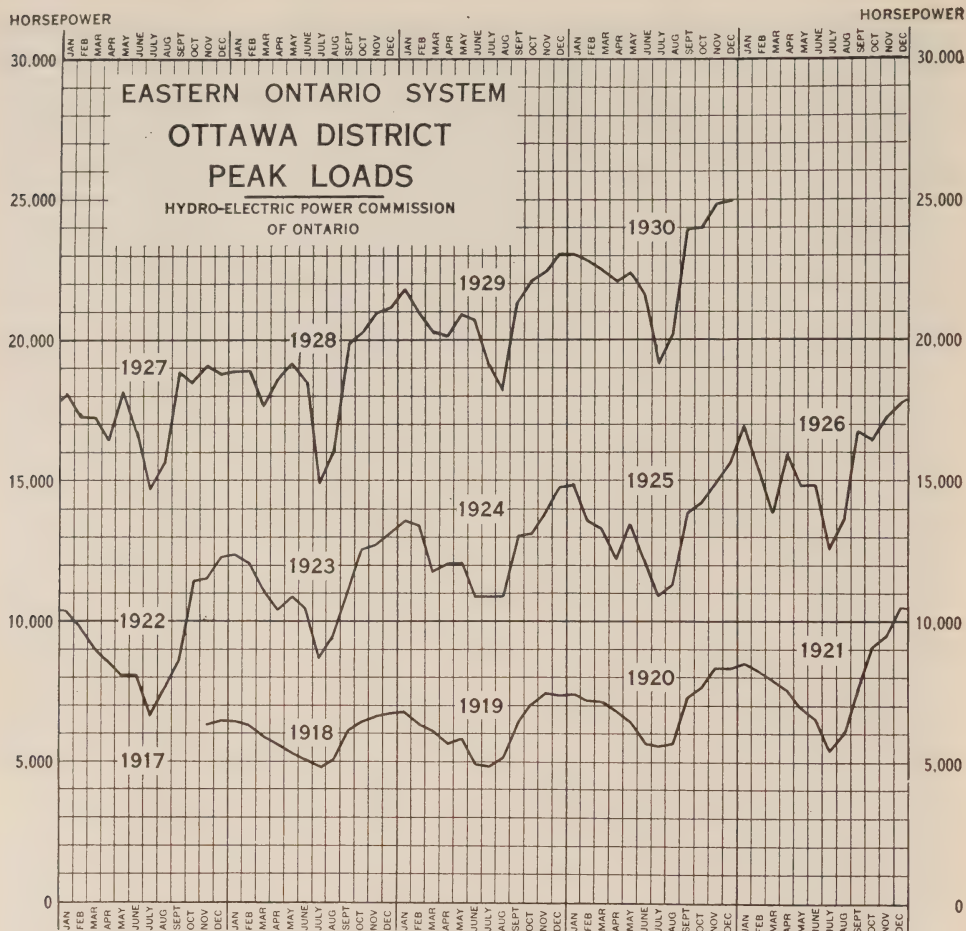
PLATE B1—GENERAL OPERATING DATA

December 20, 1929, to June 20, 1930

GRAPH No. 1—System average weekly load in kilowatts, which includes power purchased from the Gattineau Power Company and plants 12 and 17.

GRAPH No. 1a—Weekly average load in kilowatts supplied by H.E.P.C. plants on the Trent and Otonabee rivers.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams, exclusive of 12 and 17. This equals the weekly average load supplied by H.E.P.C. plants only, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.



At Madoc a defective 44,000-volt roof-inlet bushing was replaced. The 44,000-volt electrolytic lightning arresters were overhauled.

At Newcastle a defective bushing was replaced in the 44,000-volt oil-breaker. The high-tension arresters were overhauled.

At Norwood switching station the 44,000-volt air-break switches were overhauled.

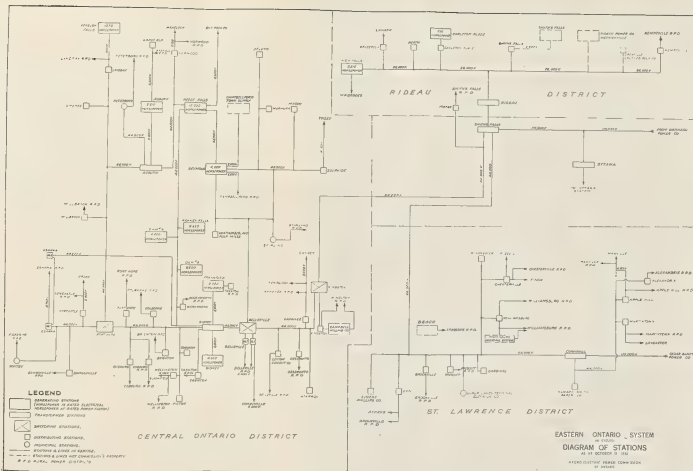
At Norwood transformer station new ammeters were installed on two of the low-tension feeders. The low-tension lightning arresters were overhauled.

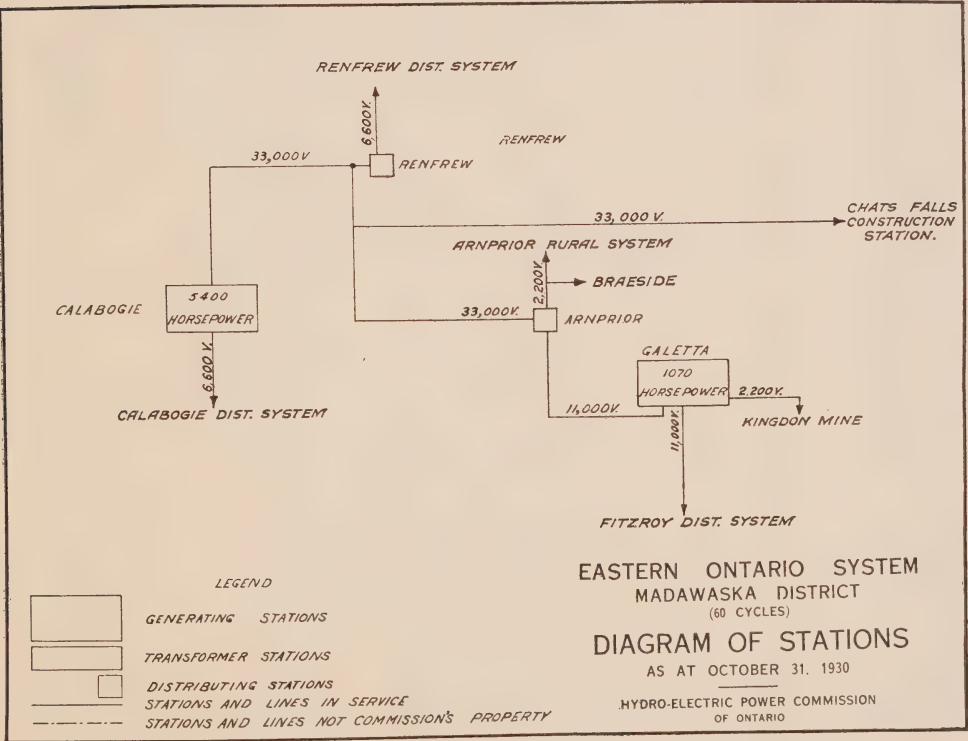
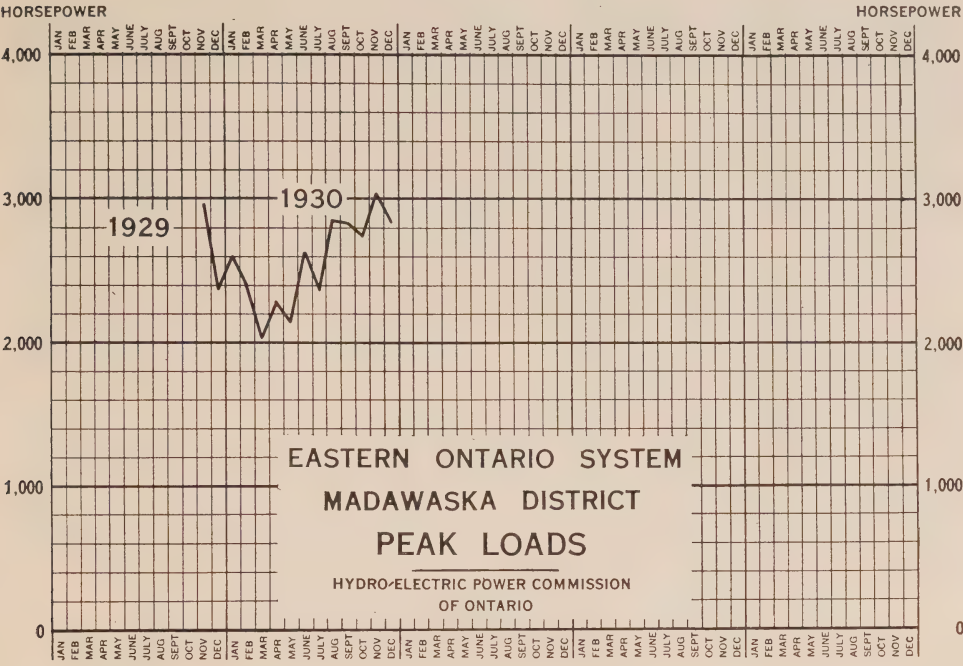
At Apple Hill a new cover and new bushings were installed on the high-tension transformer. A standard chain link fence was built around the station property.

At Prescott the station roof and flashing was renewed, and the brickwork was repainted. Repairs were made to the switching structure.

At Morrisburg a small service building of frame construction was erected for the purpose of housing one of the maintenance trucks and storing a limited quantity of line maintenance material.

Work in connection with the inspection and maintenance of high-voltage transmission lines was actively carried out during the year. A number of





poles were stubbed on the 44,000 and 26,400-volt lines. During the year over 27,000 pin-type insulators were inspected, 4,700 of which were found to be defective and were replaced. A large number of defective cross arms and pins were replaced. An air-break switch was installed on the 110,000-volt line at Richmond. Four air-break switches of an improved type were installed on the 26,400-volt lines. These switches will greatly facilitate the work in locating and isolating a defective line section. The usual amount of tree trimming was done. New platforms were constructed and other improvements were made at several of the high-tension switching structures. Several miles of low-tension line were constructed at different points for the purpose of transmitting power into rural power districts.

The Belleville machine and meter repair shop has again been very active throughout the year. The work has included the testing and repairing of various types of meters, and the fabrication of electrical apparatus and replacement parts required in power plant maintenance.

An extensive programme of field work was carried out by the Meter department during the year. This department is responsible for the installation and maintenance of all metering equipment and relays on this system. Assistance has been rendered throughout the year to various municipalities, local systems and private companies in connection with technical problems in the field.

**EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930**

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Belleville.....	3,121.1	3,551.5	3,539.7	11.8	.....
Bloomfield.....	114.6	101.2	121.0	.....	19.8
Bowmanville.....	1,792.2	1,724.4	1,766.4	.....	42.0
Brighton.....	242.6	265.4	274.2	.....	8.8
Cobourg.....	1,267.7	1,361.7	1,383.0	.....	21.3
Colborne.....	152.4	168.9	190.6	.....	21.7
Deseronto.....	164.9	152.8	181.3	.....	28.5
Havelock.....	250.6	220.9	228.5	.....	7.6
Kingston.....	3,912.5	4,221.8	4,451.8	.....	230.0
Lakefield.....	182.9	192.3	225.6	.....	33.3
Lindsay.....	1,678.3	1,522.7	1,662.3	.....	139.6
Madoc.....	135.0	142.6	168.9	.....	26.3
Marmora.....	92.7	86.6	87.6	.....	1.0
Millbrook.....	64.3	68.6	85.6	.....	17.0
Napanee.....	931.7	957.5	1,009.8	.....	52.3
Newburg.....	396.8	236.0	45.5	190.5	.....
Newcastle.....	71.1	72.9	82.0	.....	9.1
Norwood.....	124.8	142.5	168.7	.....	26.2
Omeme.....	50.1	72.9	74.4	.....	1.5
Orono.....	47.3	165.7	60.9	104.8	.....
Oshawa.....	8,659.5	8,880.7	8,706.4	174.3	.....
Peterborough.....	6,097.0	6,271.0	6,400.2	.....	129.2
Pictou.....	737.2	892.7	804.3	88.4	.....
Port Hope.....	1,112.6	1,207.7	1,331.6	.....	123.9
Stirling.....	261.4	282.8	252.5	30.3	.....
Trenton.....	1,906.9	2,610.6	2,731.6	.....	121.0
Tweed.....	209.1	214.5	197.0	17.5	.....
Warkworth.....	54.9	57.6	69.9	.....	12.3
Wellington.....	133.8	144.0	201.0	.....	57.0
Whitby.....	1,000.8	958.5	1,020.1	61.6	.....

**EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT
RURAL POWER DISTRICT LOADS—1928-1929-1930**

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Belleville.....	159.4	170.4	240.4	.....	70.0
Bowmanville.....	4.0	4.9	56.7	.....	51.8
Campbellford.....	56.3	54.7	54.7	.....	.....
Cobourg.....	24.5	110.1	122.3	.....	12.2
Colborne.....	45.1	44.2	67.0	.....	22.8
Kingston.....	39.2	51.6	151.3	.....	99.7
Lakefield.....	1.0	1.0	1.0	.....	.....
Newcastle.....	12.5	14.5	47.1	.....	32.6
Napanee.....	2.0	5.0	103.4	.....	98.4
Norwood.....	.....	5.3	9.7	.....	4.4
Oshawa.....	324.5	397.4	372.6	24.8	.....
Peterborough.....	359.4	424.7	434.4	.....	9.7
Pickering.....	97.0	127.3	139.4	.....	12.1
Port Hope.....	24.1	22.8	47.7	.....	24.9
Trenton.....	10.0	10.0	12.4	.....	2.4
Warkworth.....	.....	1.0	2.5	.....	1.5
Wellington.....	11.3	16.0	108.8	.....	92.8

**EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT
NEW RURAL POWER DISTRICTS, 1930**

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Brighton.....	Nov. 1, 1929	11.3	14.0	.....	2.7
Deseronto.....	Mar. 4, 1930	1.0	1.0	.....	.....
Millbrook.....	July 4, 1930	27.2	27.0	0.2	.....
Stirling.....	Nov. 1, 1929	2.0	26.3	.....	24.3
Lindsay.....	July 12, 1930	2.0	.....	2.0	.....

**EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930**

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Alexandria.....	232.1	214.7	260.9	.....	46.2
Apple Hill.....	30.0	28.0	27.5	0.5	.....
Athens.....	.....	70.7	87.9	.....	17.2
Brockville.....	1,732.9	1,954.5	2,220.2	.....	265.7
Chesterville.....	248.0	167.5	198.4	.....	30.9
Finch.....	30.5	38.1	50.0	.....	11.9
Lancaster.....	37.6	44.9	67.4	.....	22.5
Martintown.....	17.5	25.2	27.5	.....	2.3
Maxville.....	50.0	52.2	58.0	.....	5.8
Prescott.....	570.6	682.7	882.5	.....	199.8
Russell.....	61.5	50.2	72.4	.....	22.2
Williamsburg.....	37.4	35.3	37.3	.....	2.0
Winchester.....	182.3	198.4	212.3	.....	13.9

**EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT
NEW MUNICIPALITIES**

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Cardinal.....	July 4, 1929	53.6	112.6	.....	59.0

**EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT
RURAL POWER DISTRICT LOADS—1928-1929-1930**

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Apple Hill.....	22.0	28.6	*	.....	.....
Brockville.....	47.2	59.2	406.3	.....	347.1
Chesterville.....	51.3	82.2	104.4	.....	22.2
Martintown.....	28.2	42.2	46.5	.....	4.3
Maxville.....	0.7	0.7	91.1	.....	90.4
Prescott.....	56.7	69.0	85.3	.....	16.3
Williamsburg.....	2.0	8.4	20.6	.....	12.2

*Absorbed by Maxville R.P.D.

**EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT
NEW RURAL POWER DISTRICTS, 1930**

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Alexandria.....	Dec. 5, 1929	7.6	15.2	.....	7.6
Iroquois.....	July 1, 1930	375.0	375.0	.....	.....

**EASTERN ONTARIO SYSTEM—RIDEAU DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930**

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Carleton Place.....	749.3	879.9	843.1	36.8	.....
Kemptville.....	174.9	217.7	241.3	.....	23.6
Lanark.....	49.8	56.0	61.6	.....	5.6
Perth.....	725.2	774.8	891.4	.....	116.6
Smiths Falls.....	1,292.2	1,410.2	1,615.3	.....	205.1

**EASTERN ONTARIO SYSTEM—RIDEAU DISTRICT
RURAL POWER DISTRICT LOADS—1929 AND 1930**

Rural power district	Peak load in horsepower		Change in load	
	Oct., 1929	Oct., 1930	Decrease	Increase
Smiths Falls.....	76.0	137.3	.....	61.3

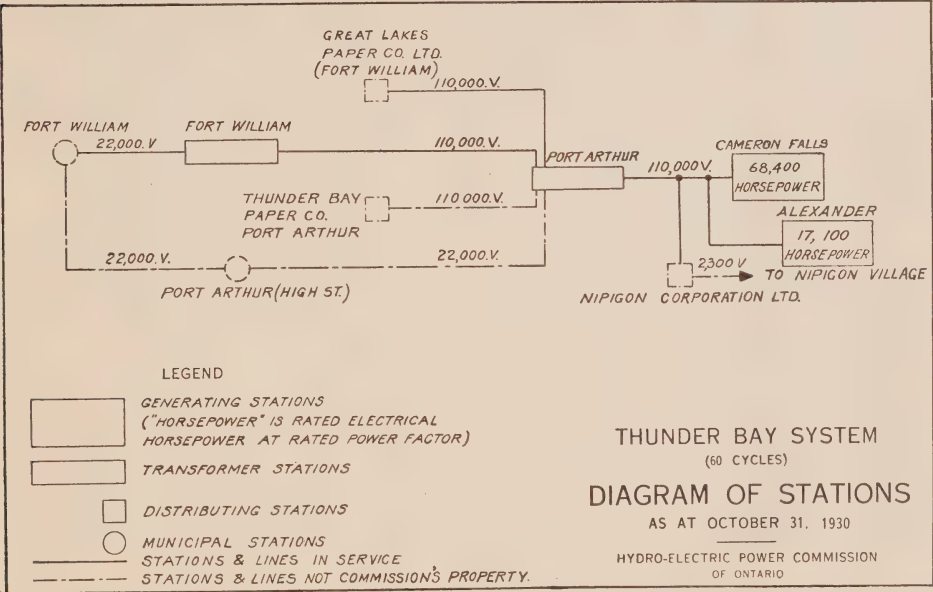
EASTERN ONTARIO SYSTEM—OTTAWA DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Ottawa	20,241.0	22,079.0	24,047.4	.....	1,968.4

NOTE.—Nepean rural power district and Richmond included in Ottawa load to the extent of 282 horsepower for October, 1928, 375.3 horsepower for October, 1929 and 450.4 horsepower for October, 1930.

THUNDER BAY SYSTEM

The load on the Thunder Bay system during the past fiscal year has been very similar to that existing during the preceding year, the total energy generated and the peak load for the year being slightly greater, but the average peak being about 2.5 per cent less during 1930 than in 1929. While the load has continued at this same level there has been no restriction of power supply to any of the Commission's customers on this system. The Nipigon Corporation pulp mill at Nipigon has not been operating during the year.



The transmission capacity of the 110,000-volt lines has been materially augmented during the year by the erection of the second power circuit on the tower line between Cameron Falls generating station and Port Arthur transformer station. This circuit was placed in service on February 2, 1930, and there are now three circuits between these points, giving an increased guarantee of continuous service.

The new dam in the Nipigon river at Alexander generating station was placed in service on September 28, 1930.

Number 3 generator unit and temporary auxiliary equipment were placed in service at Alexander generating station on October 21, 1930.

No new equipment was placed in operating service in the Cameron Falls generating station or at Fort William transformer station, but a new 110,000-volt breaker (for the third incoming line) was placed in service at Port Arthur transformer station on January 12, 1930.

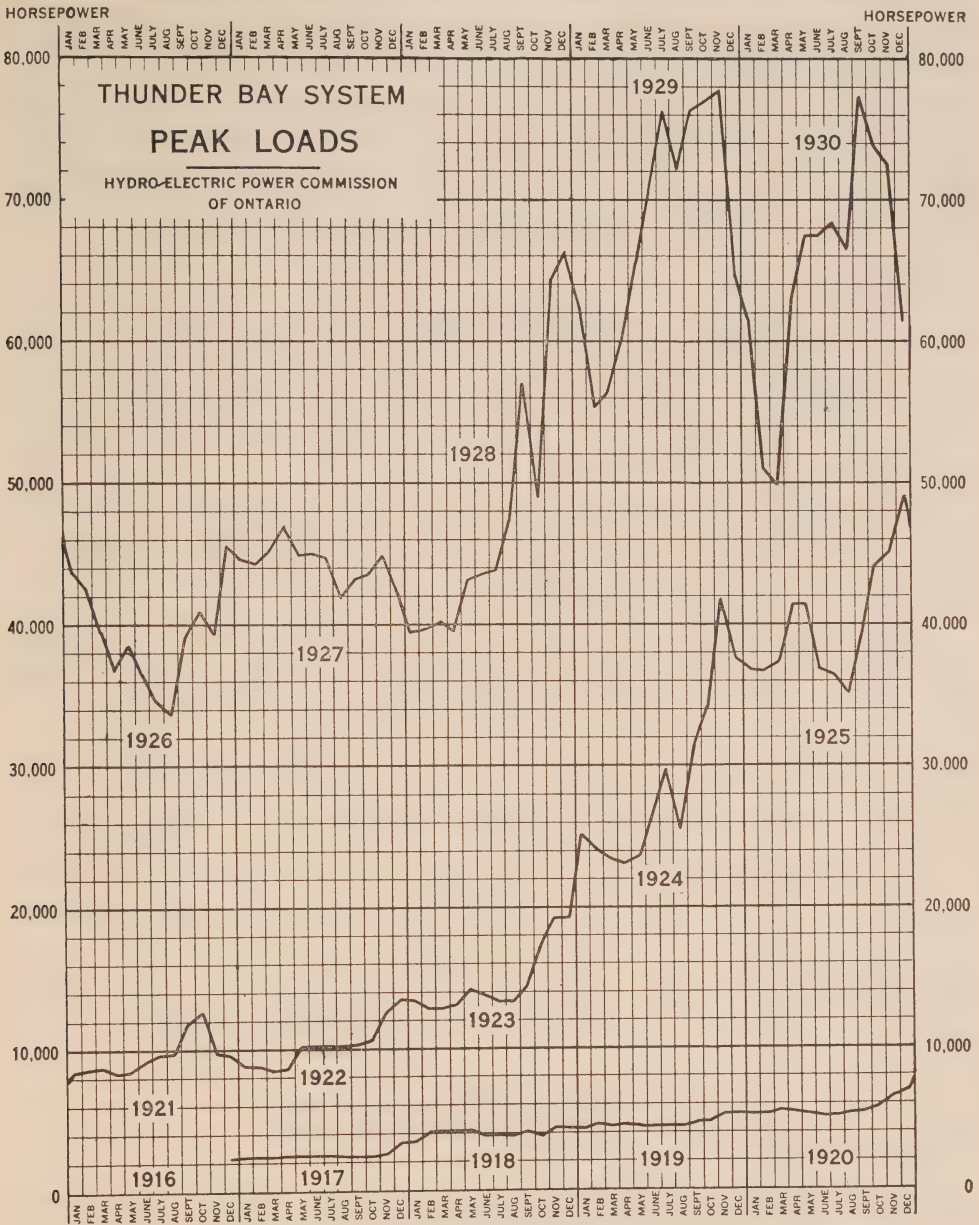
In the interests of convenient power interchange between the Thunder Bay system and the Kaministiquia Power Company's system, a tie at 22,000 volts has been arranged. This consists of a short length of 22,000-volt circuit from the Commission's Fort William transformer station, erected on poles belonging to the Hydro-Electric Commission of Fort William, which connects through an air-break switch directly to one of the main circuits between the Kaministiquia Power Company's generating station at Kakabeka Falls and its Fort William terminal station. This interconnection was placed in service on February 11, 1930.

There was no major hydraulic maintenance work done during the year. The auxiliary equipment, however, has been carefully gone over and is in first class operating condition. Special attention was paid to the overhauling and adjustment of the governors.

Only minor maintenance work was done to any generator during the year. The main power transformers at Cameron Falls generating station and at Port Arthur transformer station, with one exception, have been disassembled, thoroughly cleaned and reassembled during the year, leaving them in first class operating condition. There remains one transformer at Cameron Falls generating station to be completed, as this transformer is being equipped with a new 12,000-volt winding of improved design. Emergency bus connections have been provided at Port Arthur transformer station whereby the spare transformer may readily be connected in service to replace any unit of either bank, without moving it, which eliminates temporary oil and water connections.

The 110,000-volt circuit-breakers at Cameron Falls generating station have been overhauled and adjusted during the year. One bushing on each of three breakers at this station failed during the year. There has also been a failure of a bushing on a breaker on one of the 22,000-volt feeders out of Port Arthur transformer station.

The service obtained from the transmission lines during the year has been very good. The two system interruptions during the year have been due to failures of bushings in the 110,000-volt oil-breakers at Cameron Falls generating station. Flashovers, during thunderstorms on one transmission circuit have been responsible for two interruptions to Nipigon Corporation station, while the third interruption was due to the failure of a bushing in a 110,000-volt oil-breaker at Cameron Falls generating station. The Great Lakes Paper Company station and Fort William transformer station each had one interruption during the year, due to flashovers on their respective 110,000-volt transmission lines from Port Arthur transformer station. Some changes in the power transpositions in the wood-pole circuit were made during the year at the instance of the Canadian Pacific railway and Canadian National railways, whose communication circuits are closely paralleled by these transmission lines. Maintenance work has been done on these wood-pole lines in tightening guys and treating the poles at the ground line. Brush was cut along certain sections of the right-of-way.



The Port Arthur transformer station has had no curtailment of service to any customer due to failures of equipment. New foundations have been placed for a number of the supporting columns of the steel framework of the station, and also for several of the 110,000-volt breakers, without interfering with service. The relay and breaker equipment has operated satisfactorily during the year.

The Fort William transformer station also has had no failures of equipment or incorrect functioning of relays or breakers. Some slight addition to the feeder equipment has been made, to permit of synchronizing around the tie

breaker when paralleling with the Kaministiquia Power Company's system, and the metering arrangement has also been improved.

The precipitation in the watershed supplying this system has been relatively light during the year, and there has been very little water spilled (wasted) over the power house dam. The heavy load on the system has required a correspondingly large flow in the river. The level of lake Nipigon has been drawn down to its lowest value since the regulating dam at Virgin Falls was built.

Radio Communication

The two short-wave experimental radio stations at Cameron Falls and Toronto have been in service all year. Communication between the two stations was fairly reliable throughout the year, there being only a few days in each month when conditions were not satisfactory. Considerable trouble from outside interference has been experienced at Toronto, and various attempts to eliminate or avoid this were made.

During the year the transmitter at Toronto was completely overhauled and rebuilt, using an improved circuit. This has resulted in improved efficiency and more stable operating conditions. No special maintenance work was required at the Cameron Falls station.

Now that a similar station has been placed in operation at Ear Falls generating station, Patricia district, the Cameron Falls station can be used as a means of relaying messages between Toronto and the above station.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

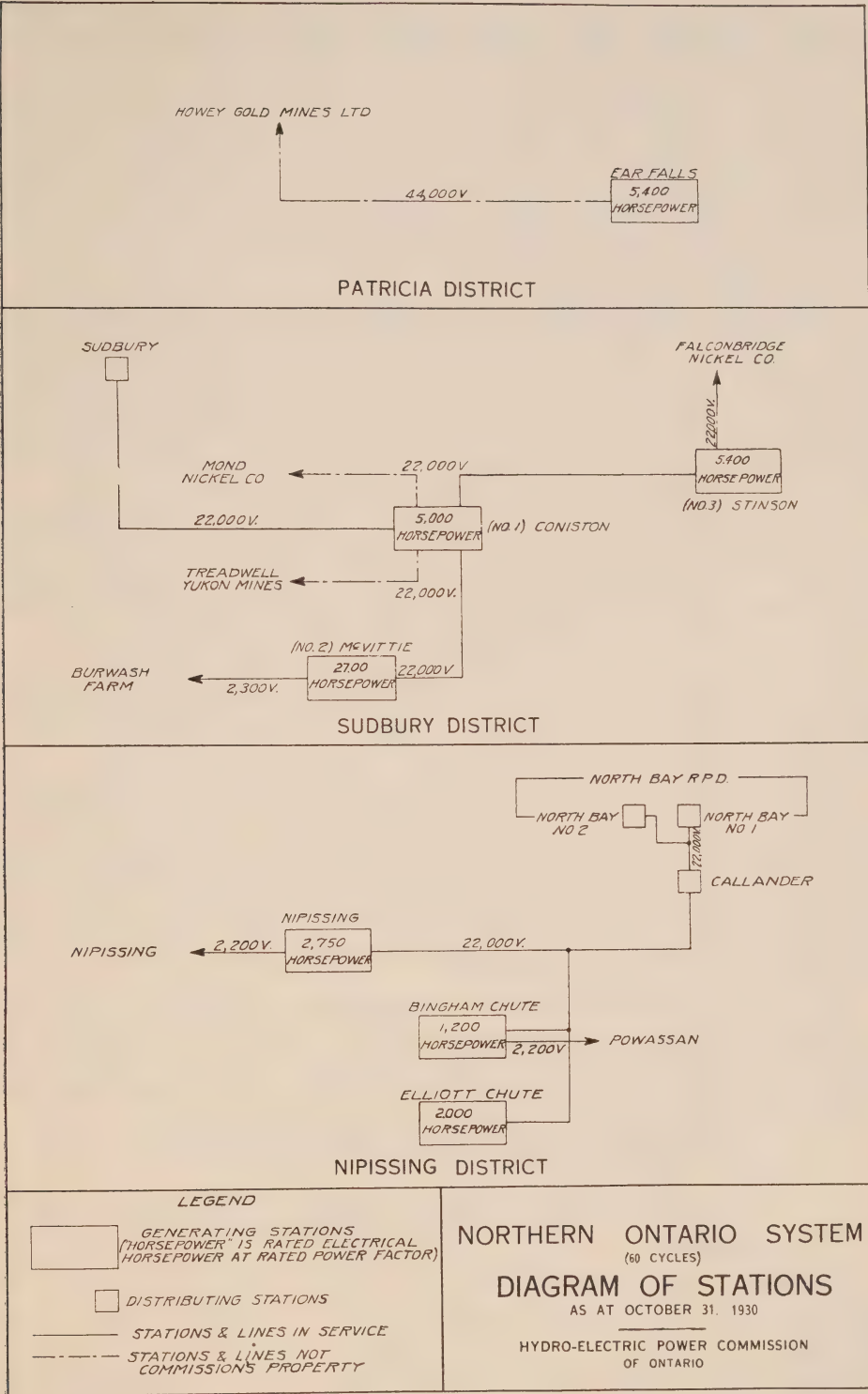
Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Fort William.....	10,556.2	9,966.5	10,596.5	.....	630.0
Nipigon Township.....	56.2	57.6	65.7	.....	8.1
Port Arthur.....	27,839.1	41,863.2	38,619.4	3,243.8	.....

NORTHERN ONTARIO SYSTEM

Nipissing District

The peak load in the Nipissing district shows an increase of six per cent, and the average load an increase of four per cent, over the previous year.

Numerous changes and additions were made to the telephone layout in this district, which included the installation of telephone and protective equipment at North Bay station, Z9, the installation of new protective equipment at North Bay station, Z4, the restringing of the telephone line from Callander to North Bay with No. 6 A.C.S.R. conductor, the extension of the telephone system to Elliott Chute power house and operator's cottage, and the installation of a telephone exchange and rearrangement of lines at Bingham Chute power house. Since the Elliott Chute power house has been in operation, the operation of the system is directed from Bingham Chute power house.



The Elliott Chute plant, which went into service under manual control in October, 1929, was made automatic and placed under remote control from Bingham Chute during the present year.

Owing to a particularly dry fall in 1929, the supply of storage water, and consequently the river flow, was much reduced and it was necessary to curtail loads from about December 20 to January 8, 1930, when a thaw gave relief. Street lights were cut off at certain times, and sign lights partly cut off. Part of the North Bay pumping load was carried by a gasoline-driven pump, while part of the Temiskaming and Northern Ontario Railway plant load was carried by its own steam auxiliary plant.

A leak developed in the earth section of the new Elliott Chute dam in the fall of 1929, which was apparently caused by a spring. Three wells were sunk to collect the water from this leak and tile laid to drain the water away. Sheet piling was also driven in the dam as a reinforcement. In the spring of 1930 while the frost was coming out of the earth and at a time when the head of water was comparatively high on the dam, a washout occurred in this earth section which required that the head on the dam be lowered and considerable new fill had to be placed in the holes caused by the washout.

Lightning arresters were installed on the three-phase feeder to the surge tank, on the Nipissing village feeder at Nipissing power house, and on the 2,300-volt bus and the Powassan feeder at Bingham Chute power house. These arresters were installed for the purpose of trying to prevent lightning surges coming in over the low-tension feeders and damaging the generators.

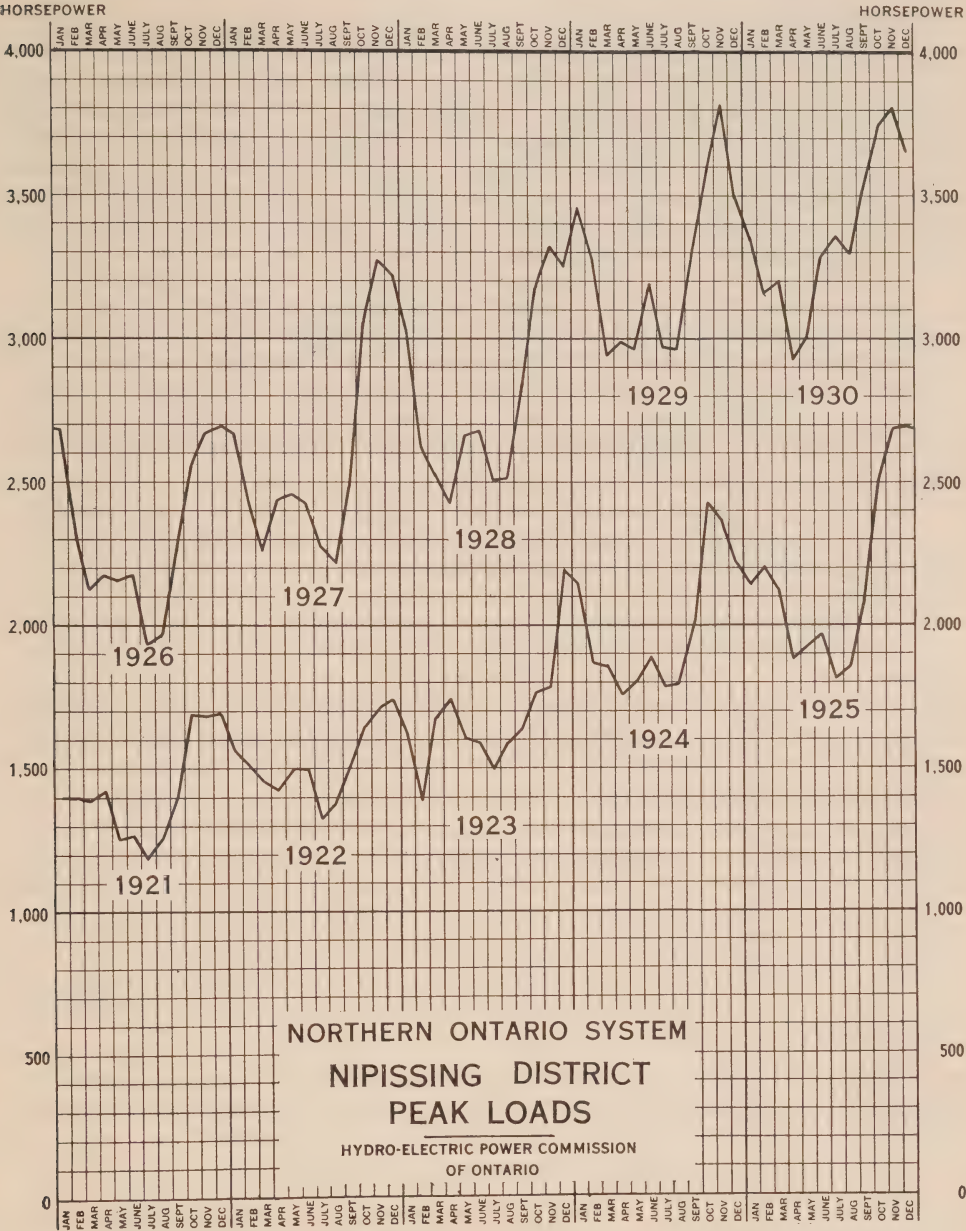
Inspection of the turbines at all three power houses was made, and all found in good condition. The inside of the turbines, the draft tubes, distributor pipe, thimbles and trash racks were painted at Bingham Chute and repairs made to the aprons in the sluiceways.

Extensive changes were required to the double circuit 22,000-volt lines in the vicinity of Callander owing to a siding built by the Canadian National railways, and due to relocation of the Ferguson highway. Due to the relocation of the highway it was necessary to detour the lines to avert damage during blasting, and to relocate them after the highway was completed. A section of line was restrung with new cable and longer poles erected at this point at the same time. Changes for a crossing were also made at the request of the Bell Telephone Company at another point.

A new concrete sluiceway and waste weir were constructed at Craig Lake dam, also a permanent retaining crib. This new sluiceway replaces the old wooden sluiceway, which was the weakest part of the dam and which has been filled in. Extensive repairs were carried out at several other storage lake dams.

NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Callander.....	113.9	107.2	110.7	.....	3.5
Nipissing.....	3.0	3.0	3.0	.....	.....
North Bay.....	2,721.2	2,992.6	3,111.2	.....	118.6
Powassan.....	70.8	96.6	95.1	1.5	.....



NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT
RURAL POWER DISTRICT LOADS—1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
North Bay.....	40.2	42.2	69.7	.....	27.5

Sudbury District

As stated in the last Annual Report, the control of the Wahnapiatae Power Company was acquired by the Commission in 1929. From February, 1929, until April 30, 1930, the company continued as a joint stock company with the Commission's Operating department controlling the operation of the three generating plants and transmission lines. On April 30, 1930, the Commission completed the purchase of the company and the former Wahnapiatae Power Company properties are now included in the Commission's Northern Ontario system and known as the Sudbury district.

The Sudbury district includes three generating stations, with 22,500-volt tie lines between plants, a line from the Coniston plant to Sudbury, also operated at 22,500-volts, and a substation at Sudbury. Power is supplied to Sudbury, to the International Nickel Company's plant at Coniston, to the Treadwell Yukon Company, the Falconbridge Nickel Company and to Burwash Industrial Farm. The three mining companies named above and the Burwash Industrial Farm, each own their own transmission lines.

The power houses have been named Coniston, McVittie and Stinson. The rated generating capacities of the three plants are as follows:—Coniston 4,550 kv-a., McVittie, 2,500 kv-a., Stinson 5,000 kv-a., making a total of 12,050 kv-a.

The peak load in this district shows an increase of twenty-two per cent and the average load an increase of twenty-three per cent over the previous year. Figures for load in the fiscal year 1929 were obtained partly from the records of the Wahnapiatae Power Company. The major part of this increase was due to the addition of the Sudbury municipal load and the load of the Falconbridge Nickel Company.

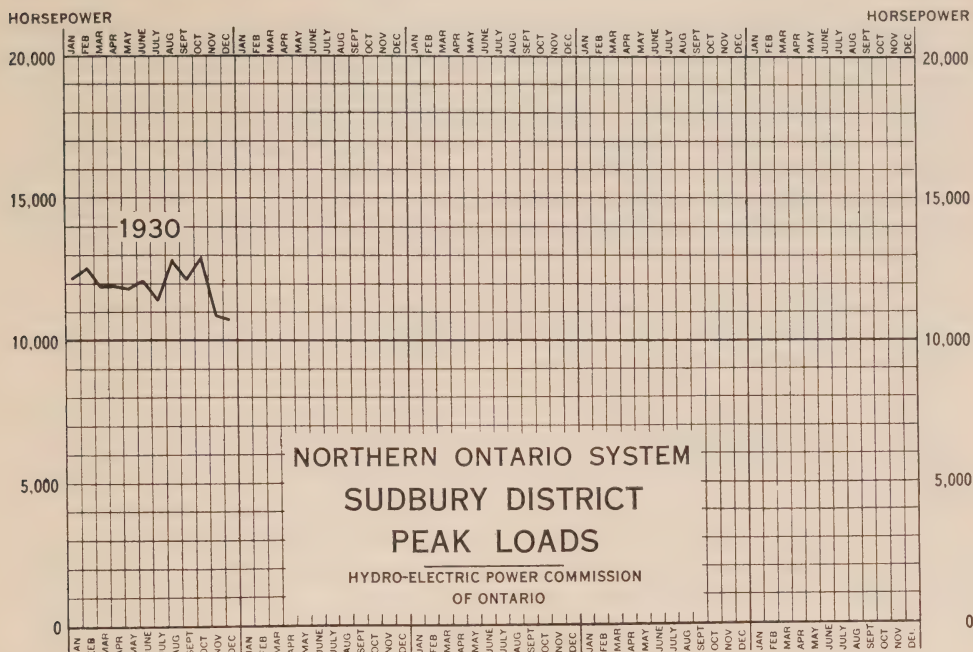
Due to a period of continuous heavy rains and a particularly heavy rainfall on June 27, the river flow became so great that McVittie power house was flooded to a depth of about fifteen inches on the power house floor. Water got into a portion of the generator and exciter windings, also into the machine cables. By June 30 the water was low enough to start work drying out the insulation affected, and the machines were placed back in service on July 8. As a result of this flood a certain portion of the system load was curtailed till repairs could be completed.

On July 8 the No. 1 generator at this plant was damaged by lightning, shortly after it had been returned to service. Twelve coils had to be replaced and repairs made to the armature iron which had been damaged.

To obviate future damage from flooding a bulkhead was placed in the floor opening left for No. 3 draft tube, and provision made for blocking the doors with stop logs.

New lightning arresters were installed on the 2,300-volt bus at the McVittie plant to try and prevent trouble previously experienced due to lightning coming in over the Burwash feeder and damaging the generators.

Trouble occurred in the upstream runner of No. 3 turbine at Coniston power house due to cracked and broken buckets. These defects were repaired by welding and the unit returned to service. As similar trouble was experienced with this runner a few years ago, it was felt that it would be advisable to have a spare runner, and a new runner was ordered.



Ventilators were installed on the roof of Stinson power house and the roof of Sudbury substation, to reduce the excessive temperatures in these stations during warm weather.

The machines at all three power houses were carefully inspected and necessary maintenance work carried out, including turning down commutators and collector rings and undercutting mica on commutators, aligning bearings, and repairing gates and gate operating mechanism.

The private telephone line was extended from the Sudbury substation to the Sudbury office so that the superintendent can keep in touch with the general operation of the district.

Considerable underbrushing was done along the lines, and a large number of poles treated with preservative at the ground line.

During the severe floods experienced in the upper Wahnapiatae watershed at the end of June, the storage dam on Scotia lake failed and part of the dam was washed away. Arrangements were made to replace this dam and at the end of the fiscal year reconstruction of the dam was under way.

Patricia District

The generating and transformer station at Ear Falls on the English river was tested out and placed in service on Dec. 25, 1929, but since the installation of electrical equipment at the Howey gold mine at Red lake was not completed, no power was supplied until February, 1930, when some equipment at the mine was tested out. This load slowly increased and reached its maximum level during May, and since has remained fairly constant.

All equipment at this station has functioned in a very satisfactory manner, though some minor troubles have been experienced with the governor pump equipment. No major maintenance work has been necessary during the year.

The Commission has maintained the half of the 44,000-volt transmission line adjacent to the generating station for the Howey Gold Mines, who own this line. There have been two interruptions to service due to trouble on the transmission line during the year. Both of these were caused by trees blown across the line. On May 22, during a heavy blizzard, a very strong west wind uprooted a tree and blew it across the line. It is the intention to continue cutting the higher trees in the bush adjacent to the cleared right-of-way, but it is somewhat doubtful whether the completion of this work would have prevented the outages mentioned above.

One other interruption to service was due to failure of a current transformer in the generating station caused by water coming through around the windows. This condition has been remedied.

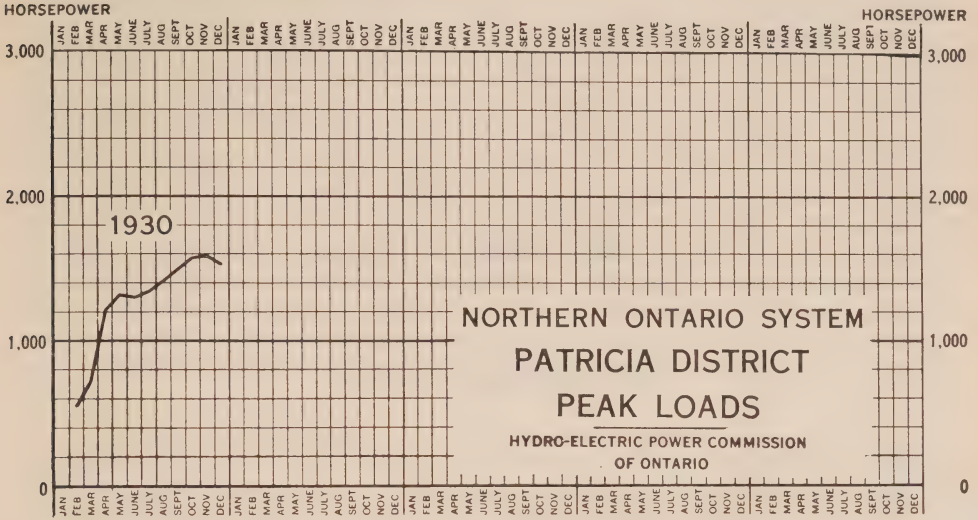
Heavy forest fires were reported near Red lake early this year, but they were brought under control before as much damage was done as in the previous year. No fire approached close enough to endanger the station or the transmission line.

The transportation of operating supplies, maintenance material and men presents problems somewhat different from those encountered at plants in more thickly settled parts of the province. Ear Falls power house is situated on the English river about three miles below Goldpines, which is located at the outlet from Lac Seul. During the summer supplies are transported by water from Hudson, the nearest railway station, a distance of about 125 miles. In the winter, when lake and river are frozen, transportation is by team, or by motor truck when snow permits, over the same route. In the fall when the lakes and rivers start to freeze over, there is a period of four to six weeks in October and November when navigation becomes impossible and transportation over the ice is not feasible. Another similar period occurs during the spring break-up of ice on the lake's surface. During these periods the plant is almost completely isolated. In addition to the above methods of transportation there is a regular aeroplane service between Sioux Lookout, on the C.N.R., and Goldpines, and a second air service between Hudson and Goldpines. Men, mail and small packages may be sent in over these air routes, a distance of about 75 miles as against 125 miles by the more circuitous water route. As the aeroplanes use pontoons for landing on the water during the summer, and skis for landing on the frozen surface of the lake and river during the winter, they also are affected by the fall and spring break-up. During the break-up periods, therefore, the staff at the power house is cut off from all operating and maintenance supplies and even from communication by mail. Their sole connection with the outside world is by radio.

During the past year the plant was completely isolated from April 11 to May 9, but the autumn freeze-up was later than usual, traffic and mail communication remaining open up to October 31, the end of the fiscal year covered by this Report.

At the instance of the Lake-of-the-Woods Control Board the flow in the English river has been frequently adjusted during the year by means of the Lac Seul regulating dam at Ear Falls.

The precipitation records have only been kept since May, but it is believed that the precipitation in this district has been somewhat above normal this



year. Due to the conservation of water when not required by the Lake-of-the-Woods Control Board the level of Lac Seul has been materially raised during the year.

Radio Communication

During the year a short-wave experimental radio station was built and installed at Ear Falls generating station. The radio equipment is similar in capacity to those already in service at Cameron Falls on the Thunder Bay system, and at Toronto. The transmitter embodies the new type of circuit that has been used in the alteration of the set at Toronto. Rectified current has been used as a power supply in place of the usual motor generator set. This source of power has given very satisfactory service.

Contact was first established between this station and Toronto on May 26, 1930. Since that time communication has been carried on quite regularly with the exception of a short interval when the station was without an operator.

Ear Falls is the Commission's most outlying station and is completely isolated for periods of four to eight weeks in spring and fall. The radio station is therefore a very necessary and important feature, as it is the only means of maintaining communication with the outside world during the periods of isolation.

Contact has frequently been established between this station and the one at Cameron Falls on the Thunder Bay system. By this means messages may be relayed between Ear Falls and Toronto when conditions are not favorable for direct communication.

SECTION III

MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the "Hydro" utilities of the various municipalities with which it has contracts. In this connection the Commission arranges for the purchase, construction or extension of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of these systems. All rate adjustments, as provided under The Power Commission Act, are recommended by the Commission, and a study of the operating conditions of all utilities is made annually and adjustments recommended accordingly. The Commission generally supervises the management and operation of all systems, more especially in the smaller municipalities which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer properly all phases of the local system's operation.

In the case of the rural power districts, the Commission itself—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

NIAGARA SYSTEM

The increase in the power demands of the Niagara system while not as great as in some preceding years was satisfactory. The tenth unit at the Queenston generating station was completed and placed in operation on July 4, 1930. The eastern section, approximately ninety-one miles in length, of the second 220,000-volt steel-tower line conveying Gatineau River power to Toronto, was completed.

The Commission and the Chats Falls Power Company have under construction at Chats Falls on the Ottawa river a generating plant which will deliver approximately 224,000 horsepower to the Niagara system. A third 220,000-volt steel-tower line has been placed under construction to connect Leaside with this generating plant.

A new 110,000-volt line has been constructed from the vicinity of Niagara falls to Port Colborne to supply the industrial loads in this vicinity.

During the year the Commission purchased the properties known as the Dominion Power and Transmission Company. This Company with subsidiaries

was purchased for the sum of \$21,000,000. The capacity of the generating plants plus power purchased under contract amounts to 83,900 horsepower and power is delivered to a large number of municipalities and industrial consumers in the territory extending from Port Colborne and St. Catharines to Hamilton, Brantford and Oakville.

By operating the Queenston-Chippawa plant—the most efficient of the three plants owned by the Commission—at full capacity as much of the time as possible, the Commission is able to obtain from the available water supply a maximum amount of power. After taking care of the full requirements of the Niagara system operating at its greatest capacity, the Commission was able during the year to sell substantial quantities of *interruptible* off-peak power to companies in the United States under arrangements which permit its withdrawal when required by Canadian industries. Such sales are of course of benefit to the system.

General engineering assistance was given during the year to practically all of the municipalities in the Niagara system, by a general supervision of management and operation, and also in connection with the construction and extension of distribution systems and stations. Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

Acton—A decided increase in the load of power users necessitated the installation of 300-kv-a. additional capacity in Acton distributing station. Additional 4,000-volt feeders to serve these loads were also provided.

Bolton—Increased use of appliances by domestic users necessitated the rebuilding of a portion of the system and the work was undertaken by the staff of the Woodbridge rural power district, directed by the Commission's engineers.

Brantford—A new substation known as Brantford Sub No. 2 was erected during the year. This consists of one 3,000-kv-a. outdoor-type transformer with the switching and metering equipment housed in a brick building. Six 4,000-volt feeders have been installed. The station will be unattended and may be tied in with Sub No. 1. Provision has been made for an additional 3,000-kv-a. transformer to be mounted outside.

Brigden—At the request of the local Trustee Board, the operation and maintenance of the distribution system were taken over by the Commission's staff of the Oil Springs rural power district.

Chatham—Extensions and improvements were made to the transformer station. Additional ornamental street lighting was installed on Dufferin and Park streets.

A recommendation was made to the Utility in connection with the issuing of debentures to take care of the bank overdraft and the financing of extensions, instead of making plant extensions from operating surplus.

Embro—At the request of the local Commission the operation and maintenance of the electrical system was taken over by the Ingersoll rural power district staff during the year.

Essex—The distribution system was changed so as to remove all primary 4,000-volt conductors from the main street and make way for steel poles put in jointly by the municipality and the Windsor, Essex and Lake Shore Radial

Association. A new ornamental street lighting system, consisting of sixty-one 300-watt multiple lights in pendant type of acorn fixtures, has been installed on these joint poles.

Glencoe—The distribution voltage to Glencoe was changed to 8,000-volts and the local distribution system was remodelled to accommodate the change.

Goderich—Tests were carried out by engineers of the Commission on a new domestic-pumping unit consisting of a 900-gallon, 310-foot head, centrifugal pump direct driven by a 110-horsepower, 2,200-volt motor.

Harrow—On Nov. 1, 1929, the local operation of the town system was taken over by the Commission's rural staff and a new office was opened on the main street. During the year the Commission's station was more than doubled in capacity to take care of the increasing loads in the town and in the rural district, especially along the lake Erie front where many new summer cottages are being built each year.

Ingersoll—The distribution system was rebuilt to take care of the increased lighting loading. The primary feeders going north on Thames street were removed through the business street section and placed to the east in the rear of the buildings.

Kingsville—Owing to the change in location for the new station in this municipality the primary 4,000-volt circuits were rearranged. Advantage will be taken of this to increase the size of these conductors and divide the town on east and west circuits.

Lambeth—Plans have been prepared to take care of changes to the distribution system made necessary by the serving of this municipality from the Glendale station instead of from Delaware station. Actual work will be undertaken during the first month of the coming year.

Lynden—In accordance with a resolution received from the local commission, plans were prepared for remodelling the distribution system. The work has been completed by the Commission's staff of the Dundas rural power district.

Merlin—During the early part of this year the operation of the local system was taken over by the Commission's Blenheim rural power district staff. A new office was opened for the village and surrounding rural district.

Newbury—Distribution voltage to Newbury was changed to 8,000 volts and the local distribution system was remodelled to accommodate the change.

New Hamburg—The rearrangement of a portion of the distribution system on Waterloo street and Huron road was undertaken, larger secondary conductor being installed.

Oil Springs—During the year the operation of the local system was taken over by the Commission's Oil Springs rural power district staff. A new office was opened in Oil Springs to take care of the operation of the municipalities of Brigen and Oil Springs as well as the Brigen, Oil Springs and Petrolia rural power districts.

Otterville—During the year thirty additional street lights were erected in the village, twelve of which are 200-watt ornamental brackets carried on adjacent poles in the business section of the main street.

Port Colborne—A substantial amount of work has been done on the local system in addition to installing cables under the new Welland Canal. The Commission's engineers prepared the plans and estimates.

Port Dover—Upon receipt of a resolution from the Port Dover Commission, plans and estimates were prepared for increasing the capacity of the local system. The work is being carried out by the Commission's Simcoe rural power district staff.

Richmond Hill—Increases in loads of domestic customers necessitated the rebuilding of a substantial portion of the local distribution system. The work was done by the Commission's staff of the Bond Lake rural power district.

St. Thomas—The office was moved from the old situation on Catharine street to a fine building purchased from Huron and Erie Mortgage and Loan Company. All Hydro bills which were formerly paid at the City Hall will now be paid at the new office.

Sarnia—Improvement was made in the street lighting in the main part of the town, by the installation of more efficient glassware. Plans were made to improve the lighting throughout the city, and commencement was made by the installation of larger lamps on main secondary thoroughfares. This work will be completed during the coming year.

Strathroy—A very fine ornamental street lighting system was put in on Front and Frank streets consisting of twin units. It was possible to eliminate a number of the overhead wires, which greatly improves the general appearance of the town.

Sutton—As the distribution system in this municipality had become inadequate for the loads, a great amount of rebuilding was done, with the assistance of the Commission's engineers and the staff of the Keswick rural power district.

Theftord—Plans and estimates have been prepared to remodel and rebuild the local distribution system to accommodate a change of distribution voltage from 4,000 to 8,000 volts.

Tilbury—The 4,000-volt primaries were removed from the main street and new primary feeder line was constructed. New power secondaries were strung to supply practically all the power load from one bank of 550-volt transformers in the centre of the town. The transformers for the town fire pump were rearranged so as not to be on the lines except when required for fire purposes.

Tillsonburg—In order to provide for increased loads, the main portion of the primary and secondary distribution system is being rebuilt locally with heavier conductor. Provision is also being made for a primary ring bus, in order to give better and more constant service.

Wallaceburg—Work was commenced on the installation of an ornamental street lighting system in the business section of the town.

Wardsville—Distribution voltage to Wardsville was changed to 8,000 volts and the local distribution system remodelled to accommodate the change.

West Lorne—The operation and the maintenance of the electrical distribution system were taken care of by the Commission through the Dutton rural power district staff in accordance with a request of the local Committee.

GEORGIAN BAY SYSTEM

The growth of load throughout this system during the year was such as to maintain an average increase equal to that established over past years, and as the various developments supplying power to the system became loaded to capacity the Commission undertook the construction of a 110,000-volt transmission line between Kitchener and Hanover, and a 5,000-kv-a. frequency changer set at Hanover, by means of which the Niagara and the Georgian Bay systems were tied together, and a large block of power made available for the Georgian Bay system from the Niagara system. This connection also makes possible the return of power from the Georgian Bay to the Niagara system during high water periods. This line and station were completed and placed in operation during the year. A tie line between the Bala system and the Big Chute development was also completed and placed in operation during the year, and the distributing lines of the Bala system were completely overhauled and placed in satisfactory operating condition. Complete new substations were installed as follows: Bala, 450-kv-a.; Utterson, 300-kv-a.; Southampton, 300-kv-a.; Painswick, 300-kv-a.; Tara, 75-kv-a., and Walkerton, 750-kv-a. The following existing substations were enlarged: Innisfil from 100-kv-a. to 450-kv-a.; Wroxeter Rural Power District from 75-kv-a. to 225-kv-a.; Kirkfield from 225-kv-a. to 450-kv-a.

Negotiations were conducted and completed during the year with the Public Utilities Consolidated Corporation of Minneapolis, Minnesota, covering the purchase of The Saugeen Electric Light and Power Company, and The Walkerton Electric Light and Power Company in Bruce County, and the Commission has now assumed complete control of these properties for the municipalities.

General engineering assistance and advice concerning the management and operation of the various local distribution systems, also assistance in connection with the application of rates and the submission of information to power and lighting customers was rendered to all of the municipalities throughout the district.

Engineering advice of a special nature in connection with matters referred to was given to the following municipalities:

Barrie—Arrangements were made for changing the local distribution system from two-phase to three-phase, and plans and estimates were drawn up and submitted to the local Commission accordingly.

Orillia—At the request of the town of Orillia, valuations were made of the rural lines in Rama, Mara and Orillia townships—owned and operated by the town of Orillia—in connection with the purchase of these lines by the Commission, and the operation of them under standard rural conditions in accordance with the Act. An agreement was drawn up and submitted, and negotiations carried on covering the purchase of these lines by the Commission. It is expected that the deal will be completed early next year.

Port Elgin—A valuation of the distribution system was made in this municipality and estimates prepared covering the cost of reconstructing it in order that the local system might be in a position to give proper service.

Rosseau—Enabling and money by-laws were submitted to the ratepayers and carried in this municipality on January 6, 1930.

Southampton—An estimate was prepared covering the reconstruction of the local distribution system in order to put it in first-class condition. A sub-station was also constructed in this municipality and service given from the Georgian Bay system on the 2nd of July.

Wiarton—Estimates were prepared covering the complete reconstruction of the distribution system in this municipality.

Windermere—A distribution system was constructed and placed in operation on June 30, 1930 and Hydro service given to the consumers for the first time.

EASTERN ONTARIO SYSTEM

This system which was formed in 1929 by combining three former systems, viz., Central Ontario system, St. Lawrence system and Rideau system, now serves the eastern portion of the Province as far west as Ontario county.

The properties on the Madawaska and Mississippi rivers, acquired from Mr. M. J. O'Brien in June 1929 have also been combined with this system.

A rural network of lines known as the Beach Rural Electric system in Dundas county supplied from a small generating plant at Iroquois owned by the Beach Estate, was acquired on July 1, 1930 by the Commission and a contract to purchase 500 horsepower was negotiated with the owners of this plant. These properties and power supply have also been made a part of the Eastern system.

The system receives its power supply in part, from generating plants on the Trent Canal system and the Rideau, Mississippi and Madawaska rivers: purchased power at Cornwall from the Cedar Rapids Company and at Ottawa from the Gatineau Power Company as well as small blocks at other points supplement this supply. The immediate future requirements of the system are amply provided for by the contract with the Gatineau Power Company and the Commission holds numerous important water power sites on the above rivers for future development.

Bancroft—Assistance and advice was given to this municipality in its negotiations with a private company for light and power.

Bath—A report is in preparation with regard to the supply of power to the village of Bath.

Belleville—On January 1, 1930 the Belleville Hydro-Electric System took over the operation of the Belleville distribution system, purchased from the Commission in 1929. Improvements to the street lighting system on No. 2 highway in Belleville are in course of construction.

Brighton—The corporation of Brighton purchased the local distribution system in Brighton and took over the operation of this system on May 1, 1930. The plant has been operated by the Brighton Water Commission, pending the election of a local Hydro-Electric Commission at the 1931 municipal elections.

Cardinal—This village which signed a contract with the Commission received its first supply of power on July 4, 1930.

Deseronto—Negotiations with regard to the purchase of the local distribution system by the municipality are now under way.

Hastings—Plans and estimates with regard to the supply of power for Hastings were submitted to the Corporation. By-laws arranging for power supply were passed by the electors.

Kingston—Assistance was given to the Public Utilities Commission, in connection with arranging for a supply of power for a new grain elevator which has been constructed at Kingston this year.

Madoc—On the expiration of a contract for the supply of power at a fixed rate, the corporation of Madoc, on January 1, 1930 entered into a contract with the Commission for a supply of power at cost. A revision of the municipality's system of rate charges was made to bring these in line with the Commission's standard form of rates. Plans are being made to improve the distribution system.

Napanee—The corporation of Napanee purchased the local distribution system from the Commission and took over its operation on April 1, 1930. The Napanee Public Utilities Commission is operating the system.

Oshawa—The Oshawa Public Utilities Commission on January 1, 1930 took over the operation of the Oshawa electrical distribution system and the Oshawa gas plant purchased from the Commission in 1929.

Port Hope—The corporation of Port Hope purchased the local distribution system from the Commission and took over the operation of the plant on May 1, 1930.

Renfrew—Due to a shortage of water on the Bonnechere river, the town of Renfrew applied to the Commission for assistance. The Commission was able to assist by accepting the output of a steam driven generator at Arnprior and delivering an equivalent amount of power at Renfrew.

Stirling—On the expiration of a contract for the supply of power at a fixed rate, the Corporation on January 1, 1930 entered into a new contract with the Commission for a supply of power at cost. Engineering assistance was give the municipality in connection with certain changes and improvements to the municipality's distribution station. Arrangements are being made with the municipality to take care of the operation of the adjacent rural power district.

Trenton—The street lighting system has been converted from a series to a multiple system.

Tweed—The Corporation is negotiating with the Commission for the purchase of the local distribution system in Tweed.

Ottawa District

In November 1929 the new high-tension station taking power at 110,000-volts, 60-cycles, was put into operation, the power delivered being part of that obtained under the contract with the Gatineau Power Company. The city of Ottawa takes this power at 11,000-volts through its new distribution station.

This additional power supply was made necessary by the rapid growth of load to an amount beyond the 20,000 horsepower available under the contract with the Ottawa and Hull Power Company, now incorporated in the Gatineau Power Company system.

THUNDER BAY SYSTEM

The power consumption of this system was considerably affected during the year by the national and world-wide industrial depression which prevailed throughout the entire year. The grain trade and the pulp and paper industry utilize the major portion of power used in this district, and these two commodities were among those which have suffered most from trade depression conditions. In spite of these difficulties, the results of the year's operation compare favorably with preceeding years. The Alexander development of 54,000 horsepower capacity was completed in part, the first unit being placed in operation on October 21, 1930.

Engineering assistance and advice covering the management and operation of the various distribution systems was given to the cities of Fort William and Port Arthur, also to the village of Nipigon, which comprise this system.

NORTHERN ONTARIO SYSTEM

Nipissing District

Investigations were made and estimates prepared covering a future supply of power for this system, which comprises the city of North Bay and the villages of Powassan, Nipissing and Callander.

Sudbury District

After the preparation of estimates and careful investigation, arrangements were completed for securing a supply of power from The Ontario Power Service Corporation, a subsidiary of The Abitibi Power and Paper Company, from a development at Abitibi canyon on the Abitibi river, approximately 50 miles north of Cochrane. A contract for 100,000 horsepower was executed. The initial power will be delivered during the latter part of 1931. It is expected that this will supply the district with all of its requirements for some time to come, and will supplement power now being obtained from the former developments of The Wahnapiatae Power Company, which now form a part of the Commission's Northern Ontario system. A contract was executed with The International Nickel Company for a large block of power for its works at Copper Cliff.

Patricia District

This district is supplied by the new development at Ear Falls at the foot of Lac Seul, the first unit of 5,000 horsepower having been completed and placed in operation during the year. The only customer at present is the Howey Gold Mines Limited, but provision has been made for supplying any other industry which may require power to operate.



RURAL ELECTRICAL SERVICE IN ONTARIO

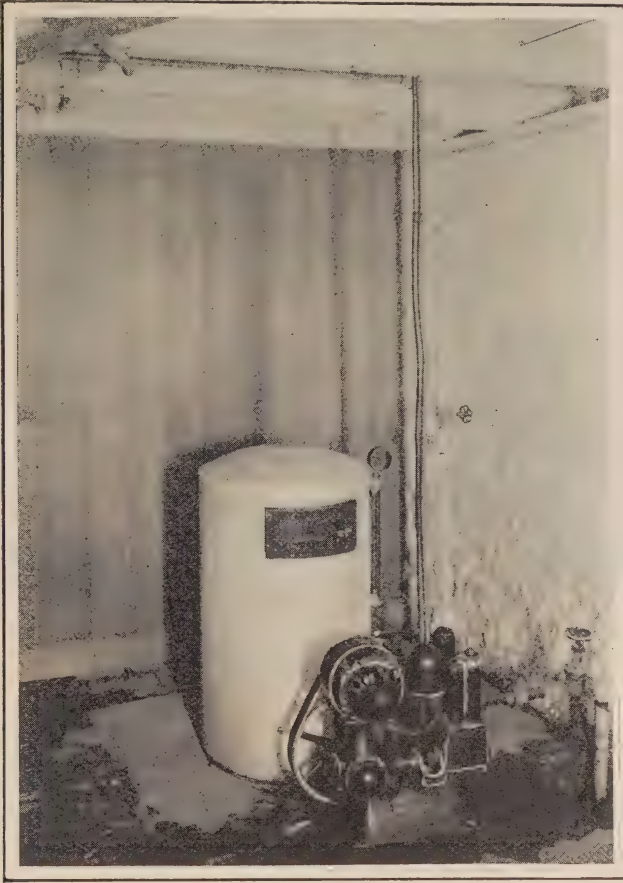
A farm home in Ontario using "Hydro" service

RURAL ELECTRICAL SERVICE

The process of supplying electrical service to the rural areas of Ontario has now been going forward for several years and very encouraging progress has been made in the sections of the Province served by the transmission lines and stations of the Commission. Rural electrification to attain its greatest success must have the wholehearted support of all rural dwellers. It is essentially a community interest. The transmission lines which serve the individual farmers can also carry light and power to churches, schools and stores, and to factories utilizing agricultural products as their raw materials. Efficient electrical service at low cost, such as is supplied by the Commission, is a great step forward in the agricultural development of the Province, and its use helps to make farming more profitable. Moreover, no other agency can contribute so much to the maintenance of a standard of living which makes life in rural districts more attractive.

The rural population has therefore welcomed with enthusiasm the possibility of obtaining the combination of lighting service with that of a most flexible form of power supply. The great networks of transmission lines which serve urban municipalities have constituted an opportunity and afforded a base from which rural primary lines may economically be extended over wide areas of the more closely settled parts of rural Ontario. The growth in mileage of rural lines during recent years has been phenomenal, and the farmers of Ontario are taking advantage of the service as fast as lines can be built to supply them.

The policy and practice of the Commission has been, and is, to make a distribution of electrical energy as widespread as possible, and to extend to every community that can economically be reached by transmission lines the benefit of electrical service. In harmony with this policy, the supplying of electrical service to rural districts has been undertaken according to a comprehensive and carefully thought-out programme. For the purpose of electrical service in rural Ontario, *rural power districts* are formed in the more closely settled portions of the Province traversed by transmission lines. A typical *rural power district* covers about 100 square miles. Its boundaries are not arbitrary geographical limits—such as define, for example, the areas of townships—but depend rather upon the economic distances which may be served



RURAL ELECTRICAL SERVICE IN ONTARIO

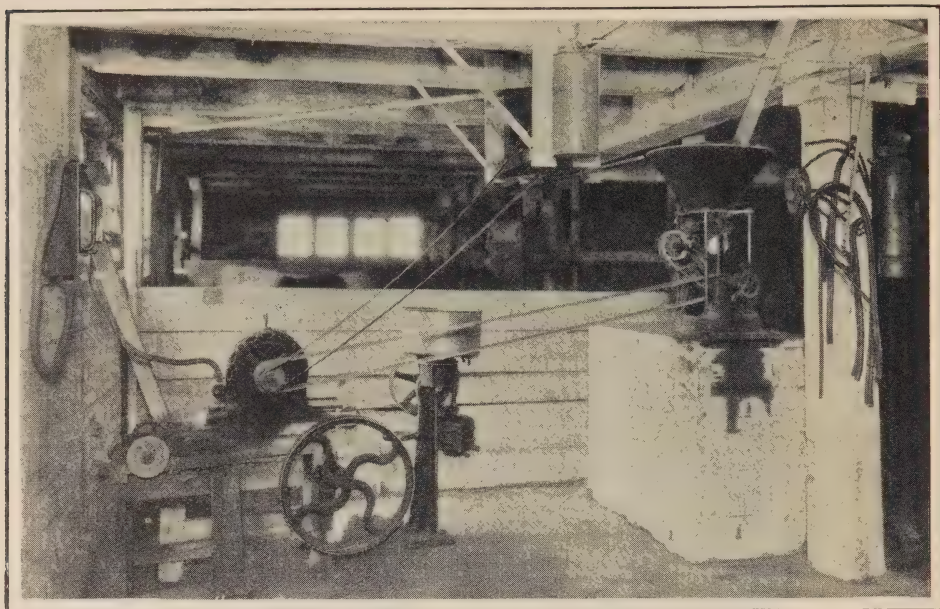
A small automatic water pumping system as used in rural homes in Ontario, served by the Hydro-Electric Power Commission

from a distribution centre of city, town or village. It should be appreciated that without such transmission networks as have been constructed to serve the cities and towns of the Province, any extensive rural electrification would be economically impracticable.

The experience gained by the Commission and the improvements in technique, enable electrical service to be given to rural districts when there can be secured three signed farm contracts, or their equivalent, per mile of line to be constructed.

Assistance is given by the Province to farmers and rural residents in three ways, namely:

First—A grant-in-aid toward the initial capital cost of supplying electrical service amounting to fifty per cent of the cost of line and secondary equipment, which is the maximum amount provided for by the Rural Hydro-Electric Distribution Act.



RURAL ELECTRICAL SERVICE IN ONTARIO

The three-horsepower motor illustrated is used in the barn to drive a chopping mill, a milking machine, a cream separator and a jack-shaft and emery stone

Second—Authority has been granted by the Province to the Commission to fix a maximum service charge for any class of service rendered by the Commission in a rural power district. Where as is usually the case in newly established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, is charged to that rural power district in a special account known as the "Rural Power Service Suspense Account" in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is to be paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is extinguished.

A tabulation set out on an accompanying page shows the present maximum service charge placed in effect on January 1, 1930.

Third—An Act to provide for granting aid towards the installation of electrical works in rural power districts was passed during the year. The purpose of this Act is to provide advances towards the installation of electrical services in rural power districts, subject to regulations. Aid may be granted subject to such regulations and repayments for the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by



RURAL ELECTRICAL SERVICE IN ONTARIO

The tented city at the provincial ploughing match at Stratford, Ontario, at which "Hydro" made a very comprehensive demonstration of appliances and equipment for use on the farm

the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

The assistance given by the Province in these several ways is in pursuance of a long-established governmental policy of promoting the basic industry of agriculture. This policy had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for farm drainage, road building and in other ways. The grants-in-aid and guarantees thus given make it possible to extend hydro-electrical power service to those engaged in and connected with agricultural pursuits in less densely populated districts where otherwise such service would not be financially feasible.

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates to the initial capital investment. Having made its grant-in-aid, the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district not only pays the cost of operation, maintenance and administration of its lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the townships served.

The aggregate load distributed to the rural dwellers is, and possibly must always be, but a relatively small proportion of the total energy distributed by the Commission, and the provincial grant towards the cost of rural service is of no advantage to the power system as a whole, because the demand for

power at present, apart altogether from the small amount distributed to the rural districts, is such as readily to absorb the supplies progressively being made available. On the other hand, the beneficial influence of rural electrical service on agriculture is reflected in the prosperity and welfare of the Province as a whole, and is already a factor of importance and worth.

The accompanying diagrams illustrate the unprecedented expansion of rural primary-line extensions during the last ten years, and the increase in the use of electricity by the farming communities of Ontario as shown by the aggregate peak loads. It is believed that further substantial progress will be made in the next few years. An outstanding reason for this growth is the extent to which the Commission has gained the confidence of the rural communities through efficiency in the construction of lines, through progressive reductions in rates and by a continuity of service which has contributed very materially to progress by inspiring confidence in the use of electrical power-driven machinery.

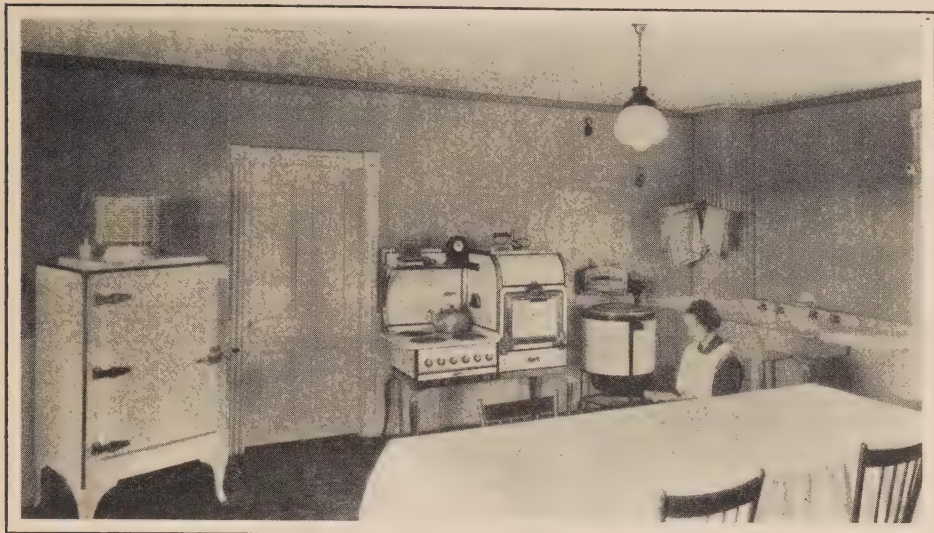
The Year's Activities

During the past year the amount of constructional work carried out in the rural power districts exceeded by a substantial margin that of any previous year. Some 1,860 miles of primary transmission lines were constructed or under construction and electrical service was given to 9,375 additional consumers. The capital expenditure approved for rural construction work during the past year was \$2,041,919, and the aggregate peak load in October, 1930, reached 26,782 horsepower. Details of these matters and of the present status of rural distribution are presented in the accompanying tables. For the coming year, arrangements have been made to construct about 1,800 miles of additional rural lines.

The engineers of the Commission attended during the past year a number of public meetings throughout the Province, held for the specific purpose of explaining to prospective consumers the rates at which electrical power could be supplied, the uses which can be made of power on the farm and the procedure necessary to obtain service. In all, seventy-five meetings were held. Where possible, moving pictures were shown, illustrating the uses of electricity on the farm. The provincial statutes relating to rural distribution were explained, pamphlets were distributed, and assistance was given to local committees appointed to canvass their respective districts.

The Commission also co-operated with the Provincial Department of Agriculture by giving similar talks to students taking short-course lectures at the Agricultural College at Guelph, and at other centres. Representatives of the Commission also attended provincial ploughing matches and arranged to give information to a large number of interested farmers. The manufacturers of electric motors and other equipment used in connection with power on the farm co-operated with the Commission in giving demonstrations at various places, showing actually how power can advantageously be employed by the farmer.

During the past year not only has the power taken by the rural power districts increased because of increased mileage of transmission lines and the demand of the consumer connected to these new lines, but the demand for power has also increased due to the greater use of electricity on the farms already served and due also to the connection of new consumers to existing lines. Furthermore, many townships have installed—in districts where the conditions warranted—street lighting systems on the public highways. To supply these



RURAL ELECTRICAL SERVICE IN ONTARIO

An electrically-equipped kitchen in a farmer's home in Markham rural power district. The electric range, washing machine, refrigerator, iron and toaster, with a modern sink and laundry tubs supplied by a water system installed in the basement, assist materially in relieving the arduous duties of the farmer's wife

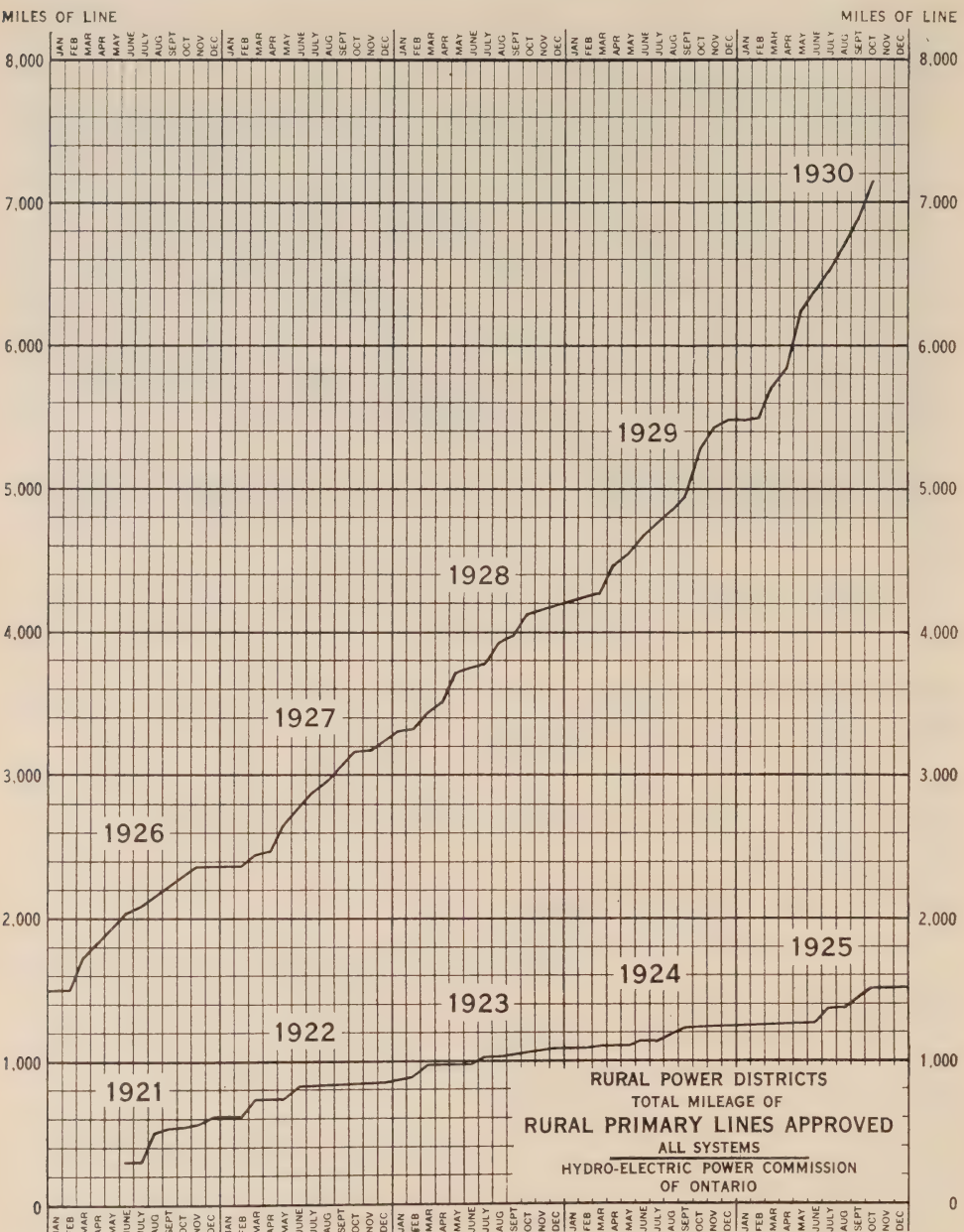
increased loads, new substations have been constructed and the capacities and number of lines have been increased.

The tabulation on page 72 shows the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amounts of provincial grant-in-aid of rural lines approved by the Government.

Rates for Rural Electrical Service

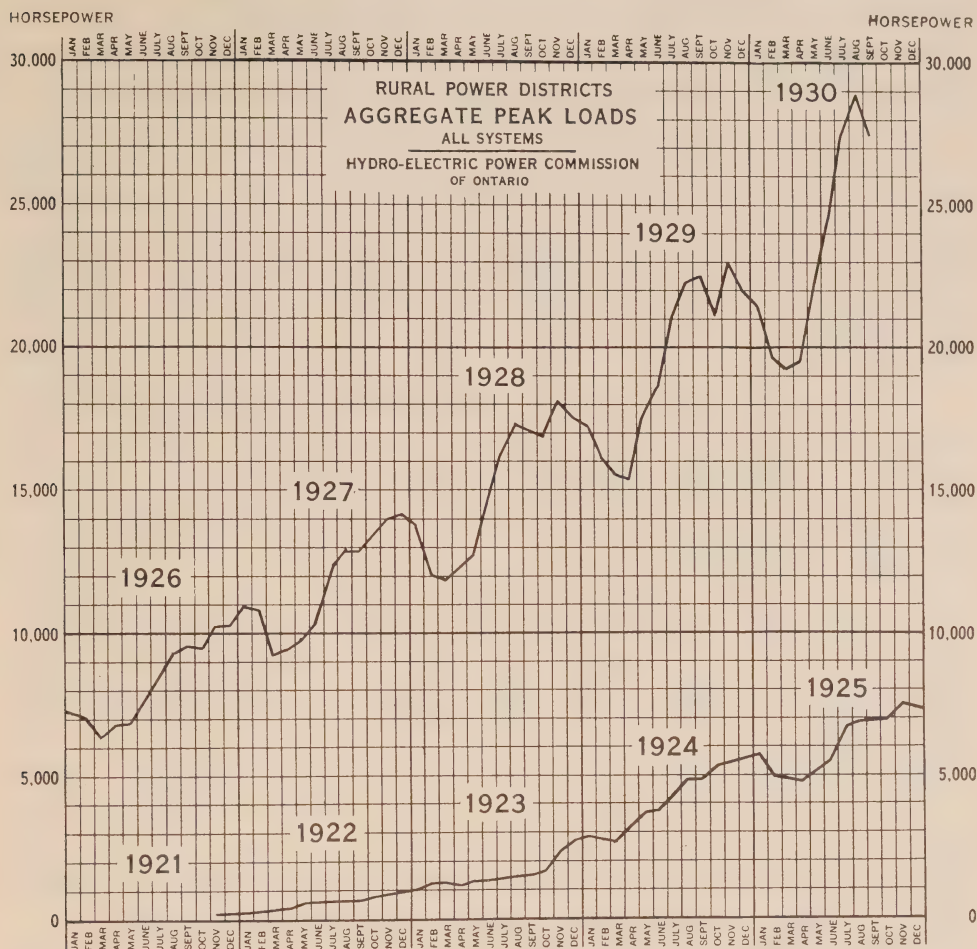
Rates to rural consumers are based upon service "at cost,"—proper account, of course, being taken of the Provincial grant-in-aid for rural work and the operation of the provision for a maximum service charge—and as in urban centres the rates are made up of two parts, a service charge and a consumption charge. In any given rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (See "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is in the form of a first and second kilowatt-hour charge and is largely determined by the cost of power at the source of supply to the rural power district.

An important factor in connection with rural power supply is the stability of the rates charged. Since service is given at cost and since it is the policy to give service wherever economically practicable, it is necessary, in the interests of the rural consumers themselves, to ensure by contract a certain minimum return from each mile of line constructed. Otherwise, if one or two prospective consumers failed to take service, it would place an unfair burden upon those who did. Experience has led the Commission to adopt the safe policy of constructing rural lines only when sufficient contracts have been signed to guarantee



payment of the fixed charges on their cost; the minimum signed contracts required being three ordinary farm contracts or their equivalent per mile of line constructed.

For the purpose of determining the service charge, each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The accompanying Table gives this information and shows the annual and monthly service charges applicable to each class of



service. It may be stated that more than 90 per cent of the contracts entered into for farm service are either of Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

Rather more than half the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these consumers are usually in Class 1B or Class 1C. It should further be understood that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

All new rural power districts begin at standard rural rates and these constitute the maximum rates submitted to the proposed consumers. As the average number of consumers per mile of line increases, the service charges may be, and in practice have been, reduced; and with increased consumption the rates per kilowatt-hour are also lowered. Thus, in older-established rural power districts the total cost of service is much below the initial standard rates.

At the end of this section is given a tabulation of the rural power districts established in connection with the several systems of the Commission, which shows the miles of line, the number of consumers and the rate schedules for each district.

SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921, to October 31, 1930

System	Miles of primary line	Number of consumers			Capital approved for extension	
		Hamlet	Farm	Total	Total	Provincial grant-in-aid
Niagara.....	5,437.55	18,196	17,305	35,501	\$ c. 12,009,573.94	\$ c. 6,004,786.97
Georgian Bay.....	520.57	2,399	1,100	3,499	1,087,005.36	519,336.20
Eastern Ontario.....	1,070.08	4,209	2,573	6,782	2,366,591.78	1,183,295.89
Ottawa district.....	121.77	372	371	743	249,096.53	124,548.26
Northern Ontario— Nipissing district.....	5.00	179	11	190	19,568.00	9,784.00
Total.....	7,154.97	25,355	21,360	46,715	15,731,835.61	7,841,751.32

RURAL LINE EXTENSIONS DURING THE YEAR 1930

System	Miles of primary line	Number of consumers			Power supplied in October, 1930	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant-in-aid
Niagara.....	1,096.97	2,031	3,264	5,295	21,758	\$ c. 2,395,325.00	\$ c. 1,197,662.50
Georgian Bay.....	245.27	924	504	1,428	1,199	500,321.00	250,160.50
Eastern Ontario...	513.54	1,116	1,360	2,476	3,305	1,124,500.83	562,250.42
Ottawa district...	37.95	60	87	147	450	61,393.00	30,696.50
Northern Ontario— Nipissing district.....		27	2	29	70	2,300.00	1,150.00
Total.....	1,893.73	4,158	5,217	9,375	26,782	4,083,839.83	2,041,919.92

SERVICE CHARGES IN RURAL POWER DISTRICTS—AS AT JANUARY 1, 1930

With Provincial Grant-in-Aid—25-cycle and 60-cycle Service

Class of rural service	Units per consumer*	Approx. number of customers per mile of line	Demand allowed consumer in k-w.	Kilowatt-hours per month at first rate	Gross annual service charge	Gross monthly service charge	Net annual service charge	Net monthly service charge
1B	2.25	6.8	0.75	30	\$ c. 18.00	\$ c. 1.50	\$ c. 16.20	\$ c. 1.35
1C	3.75	4.0	2.0	30	27.96	2.33	25.20	2.10
2A	1.90	8.0	1.0	30	20.64	1.72	18.60	1.55
2B	3.50	4.3	2.0	30	27.96	2.33	25.20	2.10
3	5.00	3.0	3.0	42	33.36	2.78	30.00	2.50
4	5.35	2.8	5.0	70	36.00	3.00	32.40	2.70
5	7.50	2.0	5.0	70	50.04	4.17	45.00	3.75
6A	12.50	1.2	9.0	126	62.04	5.17	55.80	4.65
6B	12.50	1.2	9.0	126	70.68	5.89	63.60	5.30
7A	20.00	0.74	15.0	210	92.64	7.72	83.40	6.95
7B	20.00	0.7	15.0	210	111.36	9.28	100.20	8.35

* Before a rural primary line is constructed contracts equivalent to 15 primary units per mile must be signed. (For explanation of units see accompanying text.) Thus three Class 3 consumers at 5 units each equals 15 units. Service charges are adjusted so that each class of service bears its equitable share of the cost.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes with limitations as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting	0.75	1	110	15
1C	“ “	2	1	220/110	35
2A	House Lighting	1	1	110	20
2B	Small Farm Service	2	1	220/110	35
3	Light Farm Service	3	1	220/110	35
4	Medium Farm Service	5	1	220/110	50
5	“ “ “	5	3	220/110	35
6A	Heavy Farm Service	9	1	220/110	100
6B	“ “ “	9	1 and 3	220/110	60
7A	Special Farm Service	15	1	220/110	According to load
7B	“ “ “	15	1 and 3	220/110	According to load

Class I: Hamlet Service—Includes service in hamlets, where four or more consumers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

Class 1-B: Service to residences or stores. Use of appliances over 750 watts permanently installed is not permitted under this class.

Class 1-C: Service to residences or stores with electric range or permanently installed appliances greater than 750 watts. Combinations of residence and store supplied from one service shall be not less than Class 1-C. Special or unusual loads will be treated specially.

Class II-A: House Lighting—Includes service to all residences that cannot be grouped as in Class I. This class excludes farmers and power users.

Class II-B: Farm Service, Small—Includes service for lighting of buildings and power for miscellaneous small equipment and power for a single-phase motor not exceeding 2 horsepower or an electric range (motor and range not to be used simultaneously) on a small farm of fifty acres or less.

Class III: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors not exceeding 3 horsepower and electric range. Range and motor are not to be used simultaneously.

Class IV: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors up to 5-horsepower demand or an electric range. Range and motor are not to be used simultaneously.

Class V: Farm Service, Medium 3-Phase—Includes service for lighting farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or an electric range. Range and motor are not to be used simultaneously.

Class VI: Farm Service, Heavy—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Class VII: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Note: Class IIB is the service usually supplied to small farms of fifty acres or less and Class III is the service usually supplied to ordinary farms of larger size. More than 90 per cent. of new contracts for farm service are in one or other of these two classes.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930

NIAGARA SYSTEM

Rural power district	Miles of line	No. of consumers	Rural rates												Gross consumption charge		Prompt payment discount
			Class and gross monthly service charge										1st 14 hrs. use of class demand min. 30 kw-hrs.		All additional		
			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	cents		cents	
			\$	¢	\$	¢	\$	¢	\$	¢	\$	¢	\$				
N5 D1	Acton.....	8.03	19	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	5	2	% 10
N4 D7	Ailsa Craig.....	5.80	16	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	6	2	10
N18 D9	Alvinston.....	1.87	4	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	7	2	10
N15 D3	Amherstburg.....	51.70	506	\$ 1.30	2.33	1.60	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3.5	2	10
N11 D2	Aylmer.....	100.26	530	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4.5	2	10
N12 D4	Ayr.....	19.53	68	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N7 D1	Baden.....	66.18	334	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3	1.5	10
N1 D4	Beamsville.....	122.70	837	\$ 1.35	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3.5	2	10
N15 D2	Belle River.....	35.96	348	\$ 1.35	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N14 D3	Blenheim.....	47.68	265	\$ 1.45	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N3 D3	Bond Lake.....	125.99	1,184	\$ 1.10	1.98	1.46	1.98	\$ 2.36	2.55	\$ 3.54	4.39	\$ 5.01	6.56	\$ 7.89	3	1.5	10
N14 D10	Bothwell.....	28.44	110	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	5	2	10
N13 D2	Brampton.....	43.46	155	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N12 D1	Brant.....	94.13	436	\$ 1.45	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3	1.5	10
N18 D8	Brigden.....	29.48	97	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	7	2	10
N12 D2	Burford.....	37.60	190	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4.5	2	10
N2 D5	Caledonia.....	72.97	355	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N14 D1	Chatham.....	122.69	717	\$ 1.45	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3.5	2	10
N1 D7	Chippawa.....	11.08	121	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	3.5	2	10
N8 D11	Clinton.....	49.88	262	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	5	2	10
N4 D3	Delaware.....	117.39	603	\$ 1.35	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N4 D1	Dorchester.....	103.81	536	\$ 1.35	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N14 D12	Dresden.....	23.60	71	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	6	2	10
N12 D5	Drumbo.....	40.70	214	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	4	2	10
N2 D1	Dundas.....	77.16	583	\$ 1.30	2.21	1.63	2.21	\$ 2.64	2.85	\$ 3.96	4.91	\$ 5.60	7.33	\$ 8.82	3	1.25	10
N1 D9	Dunnville.....	6.75	41	\$ 1.50	2.33	1.72	2.33	\$ 2.78	3.00	\$ 4.17	5.17	\$ 5.89	7.72	\$ 9.28	5	2	10
			†	\$ 1.00	1.86	1.38	1.86	\$ 2.22	2.40	\$ 3.34	4.14	\$ 4.71	6.18	\$ 7.42	3.5	2	10

Dutton.....	N11	D3	34.88	139	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Elmira.....	N7	D3	14.46	65	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Elora.....	N5	D4	30.49	196	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Essex.....	N15	D7	77.99	397	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Exeter.....	N4	D6	59.65	513	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Forest.....	N18	D6	23.06	76	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Galt.....	N6	D2	27.63	254	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Georgetown.....	N5	D2	38.04	201	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Goderich.....	N8	D2	22.06	100	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Grantham.....	N1	D2	43.13	478	1.00	1.50	1.25	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Guelph.....	N5	D3	79.17	463	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Haldimand.....	N2	D8	38.32	201	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Harriston.....	N8	D5	12.01	32	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Harrow.....	N15	D4	65.11	534	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ingersoll.....	N10	D3	152.10	508	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Jordan.....	N1	D3	30.61	311	1.05	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Keswick.....	N3	D5	29.03	773	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	4	2	10
Kingsville.....	N15	D5	104.91	1,234	1.00	1.80	1.25	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	2	10
Listowel.....	N8	D8	43.00	221	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
London.....	N4	D2	175.16	1,838	.90	1.65	1.15	1.75	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Lucan.....	N4	D5	31.19	121	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Lynden.....	N2	D1	39.62	210	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Markham.....	N3	D1	86.02	639	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Merlin.....	N14	D15	49.85	209	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Milton.....	N13	D3	36.54	243	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Milverton.....	N8	D9	19.83	93	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Mitchell.....	N8	D7	52.75	277	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Newmarket.....	N3	D4	46.84	275	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Niagara.....	N1	D1	47.87	257	1.20	2.15	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.5	10
Norwich.....	N10	D1	87.36	400	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Oil Springs.....	N18	D3	13.42	96	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Palmerston.....	N8	D6	23.33	68	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Petrolia.....	N18	D5	12.88	53	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Preston.....	N6	D1	106.00	847	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.25	10

*See footnote on page 73.
†Lowbanks extension.
‡Suburban area.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930
NIAGARA SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates															Prompt payment discount	
			Class and gross monthly service charge												Gross consumption charge				
			1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.		All additional			
														cents	cents				
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	cents	cents	%	
Ridgetown.....	N14 D2	659	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	4	2	10		
St. Jacobs.....	N7 D2	315	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	1.5	3	1.5	10		
St. Marys.....	N9 D1	327	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	5	2	10		
St. Thomas.....	N11 D1	988	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	1.5	3	1.5	10		
Saltfleet.....	N17 D1	997	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	1.5	3	1.5	10		
Sandwich.....	N15 D1	2,055	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	1.5	3.5	1.5	10		
Sarnia.....	N18 D4	1,064	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3.5	2	10		
Scarboro.....	N3 D2	459	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	4	2	10		
Seaford.....	N8 D10	10.35	1.10	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	4	2	10		
Simcoe.....	N12 D6	212	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	4	2	10		
Stamford.....	N1 D6	296	1.30	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	1.5	3	1.5	10		
Stratford.....	N8 D4	207	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3.5	2	10		
Strathroy.....	N4 D4	195	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	6	2	10		
Streetsville.....	N13 D1	355	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3.5	2	10		
Tavistock.....	N8 D1	251	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	5	2	10		
Thamesville.....	N14 D11	210	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	6	2	10		
Tilbury.....	N14 D14	36.83	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	5	2	10		
Tillsonburg.....	N10 D4	517	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3.5	2	10		
Wallaceburg.....	N14 D13	75.16	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	4	2	10		
Walsingham.....	N12 D7	46.72	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	6	2	10		
Walton.....	N8 D3	31.96	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	6	2	10		
Waterdown.....	N2 D3	32.76	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	1.25	3	2	10		
Waterford.....	N12 D3	50.99	2.08	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	5	2	10		
Watford.....	N18 D7	14.75	49	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	7	2	10	
Welland.....	N1 D5	239.20	2,226	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	2	3	2	10	
Woodbridge.....	N16 D1	845	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3	2	10		
Woodstock.....	N10 D2	600	1.30	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	2	3	2	10		
Total, Niagara system.....			5,166.07; 35,501.																

Total, Niagara system...5,166.07; 35,501.

GEORGIAN BAY SYSTEM

Alliston.....	S32 D1	20.78	116	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Arthur.....	E13 D2	1.40	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bala.....	GB13 D1	27.46	151	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Barrie.....	S4 D1	40.70	310	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaumaris.....	M7 D1	17.32	154	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaverton.....	W2 D1	2.80	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Beeton.....	S33 D1	.33	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bradford.....	S37 D1	.90	3	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Buckskin.....	S24 D1	.94	14	1.50	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Cannington No. 1.....	W3 D1	3.25	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cannington No. 2.....	W3 D2	5.30	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chatsworth.....	E3 D1	.00	21	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Creemore.....	S10 D2	14.80	60	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Elmvale.....	S7 D1	24.90	144	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Flesherton.....	E1 D1	1.56	24	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Georgina.....	W2 D2	10.90	98	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Hawkestone.....	S9 D1	22.11	110	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Holstein.....	E7 D1	.00	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Innisfil.....	S31 D1	23.45	273	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Lucknow.....	E24 D1	.10	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Mariposa.....	W9 D1	43.46	272	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Markdale.....	E1 D2	1.22	4	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Meaford.....	E14 D1	.66	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Medonte.....	S18 D1	2.25	18	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Midland.....	S1 D1	6.50	35	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Neustadt.....	E8 D1	.33	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nottawasaga.....	S5 D1	7.84	88	1.25	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Orangeville.....	E12 D1	17.70	51	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Port Perry.....	W12 D1	45.05	256	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Ripley.....	E24 D2	4.30	12	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Shelburne.....	E10 D1	5.68	20	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Sparrow Lake.....	W1 D1	17.51	136	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Tara.....	E15 D1	21.95	107	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

*Greenbank extension.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930

GEORGIAN BAY SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates											Prompt payment discount		
			Class and gross monthly service charge													
			Gross consumption charge													
			1B	1C	2A	2B	3	4	5	6A	6B	7A	7B		1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional
			\$	¢.	\$	¢.	\$	¢.	\$	¢.	\$	¢.	cents	cents	%	
Thornton.....	7.50	31	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Utterson.....	12.03	50	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Uxbridge.....	48.05	175	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Walkerton Quarry	1.60	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wasaga Beach...	12.25	460	1.25	3.00										5	2	10
Wroxeter.....	34.00	219	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10

Total, Georgian Bay system, 508.88; 3,499.

EASTERN ONTARIO SYSTEM

Alexandria.....	15.00	68	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 7	cents 2	10
Amprior.....	4.50	29	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Belleville.....	69.59	572	\$ 1.20	\$ 2.15	\$ 1.45	\$ 2.25	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 4	cents 2	10
Bowmanville.....	15.05	58	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 5	cents 2	10
Brighton.....	5.58	43	\$ 1.35	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Brockville.....	72.05	485	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Campbellford.....	18.65	61	\$ 1.20	\$ 2.15	\$ 1.50	\$ 2.25	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Chesterville.....	46.95	313	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Cobourg.....	58.84	283	\$ 1.35	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 5	cents 2	10
Colborne.....	20.25	111	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 5	cents 2	10
Deseronto.....	25	1	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 7	cents 2	10
Iroquois.....	80.00	391	Special	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
Kemptville.....	2.50	8	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10
Kingston.....	65.77	395	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 5	cents 2	10
Lakefield.....	.00	1	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	cents 6	cents 2	10

Lindsay.....	C29 D1	1.16	9	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Martintown.....	L13 D1	15.03	115	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Maxville.....	L14 D2	50.10	330	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	*7	2	10
Millbrook.....	C25 D1	11.75	71	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	{6	2	10
Napanee.....	C43 D1	65.73	312	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Newcastle.....	C22 D1	23.10	111	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Norwood.....	C31 D1	5.01	39	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Oshawa.....	C24 D1	58.94	755	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10
Peterboro.....	C20 D1	51.34	896	.63	1.16	.79	1.21	1.59	1.66	2.01	2.57	2.91	3.81	4.62	4	2	10
Pickering.....	C24 D2	16.25	169	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Port Hope.....	C16 D1	16.34	93	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Prescott.....	L2 D1	35.47	181	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Renfrew.....	QM16 D1	5.50	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Smiths Falls.....	H3 D1	49.47	270	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Stirling.....	C35 D1	28.46	101	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Trenton.....	C3 D1	40.55	173	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Warkworth.....	C49 D1	.33	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wellington.....	C45 D1	69.83	282	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Williamsburg....	L7 D1	10.44	43	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

Total, Eastern Ontario sys., 1,029.78; 6,782.

*Apple Hill Section.

EASTERN ONTARIO SYSTEM—OTTAWA DISTRICT

Nepean.....	T1 D1	120.74	743	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
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NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT

North Bay.....	Z4 D1	5.00	190	1.10	2.00	1.35	2.10	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
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Total, all systems; Miles of line, 6,830.47. Number of consumers, 46,715.

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

Among the activities of the Hydraulic department during the past year, three merit special notice. These are the completion by the addition of the tenth unit of the Queenston plant on the Niagara river, the advancement to the operating stage of the Alexander Power development on the Nipigon river, and the commencement of construction of the Chats Falls development on the Ottawa river. Particular interest attaches to the first of these, for, while there are no radical differences in design or arrangement of this unit and those built previously, it marks the completion of the most outstanding, in capacity and efficiency, of plants developing power from waters of the Niagara river. It is interesting to note that, while nine years have elapsed since the first unit came into service, the plant still maintains its leadership in these particulars.

The construction of the dam at the Alexander Power development was marked by exceptional speed in placing materials, in order to take full advantage of the period of suitable weather for the work.

The work on the development at Chats Falls is proceeding rapidly. This plant, when completed, will be one of the largest in Canada, being exceeded in size only by the Queenston plant and a few others in the Province of Quebec.

Reference is made below to maintenance work on a number of structures in the Georgian Bay, Eastern Ontario and Northern Ontario systems, and to investigations proceeding on undeveloped sites at various places in the province.

NIAGARA SYSTEM

Queenston-Chippawa Development

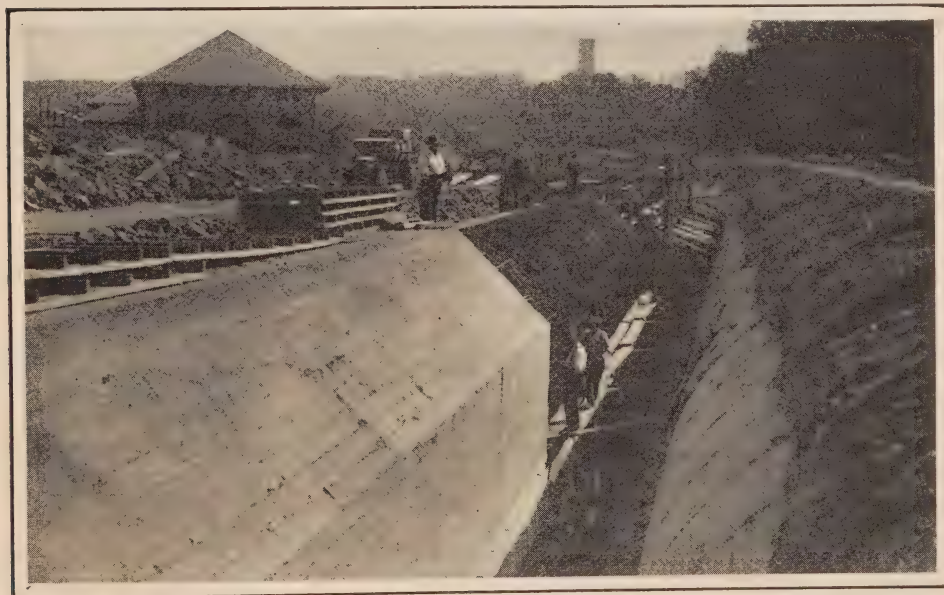
The tenth and last unit at the Queenston development was completed and brought into service during the summer of 1930. The installation is, in general, similar to the other main units in the plant, but there were certain changes in design, outstanding among which were those in the headworks. A considerable amount of rock excavation was carried out in the extension of the forebay and headworks below minimum water level in the forebay, and to do this safely and economically, the forebay and intake structure extensions were designed with a floor elevation five feet higher than for units Nos. 1 to 9, and the construction programme was so arranged as to prevent any hazard during the course of the work.



ONTARIO POWER PLANT—NIAGARA FALLS

General view of construction of concrete envelope for No. 3 wood stave conduit

Turbine unit No. 10 was built by the Dominion Engineering Works of Montreal, and has a rated capacity of 58,000 horsepower under a head of 294 feet. A Pelton-Morris governor is used, built by the I. P. Morris Company of Philadelphia.



ONTARIO POWER PLANT—NIAGARA FALLS

Typical view of concrete envelope, steel reinforcing and forms for No. 3 wood stave conduit

The completion of this unit has permitted the completion of the end wall of the power house and the substitution of permanent concrete structures for the wooden bulkheads formerly installed, to protect the plant from flooding due to high water in the Niagara river. Protective work is proceeding on the cliff to the north of the power house.

Ontario Power Conduit

A concrete envelope was constructed around a large part of No. 3 conduit at the Ontario Power plant, the work being carried out by the Construction department under the direction of the Hydraulic department. This conduit was built in 1918 as an emergency measure, along with the installation of two 15,000 horsepower units, additional power output being urgently required at that time. It is 6,850 feet long, 13 feet 6 inches in diameter, and, as a measure of economy—it being looked upon as a temporary installation—was built of 4-inch wood staves. A portion of it at each end was provided with a concrete envelope at the time of construction, but about 4,500 feet was left exposed in open trench. This is the portion that has now been provided with a concrete envelope. The improvement was required under agreement with the Queen Victoria Niagara Falls park, and makes this conduit a permanent water passage.

The concrete in the envelope has a minimum thickness of 15 inches, is reinforced with two circumferential rings of plain round bars, designed for full water pressure without any allowance for the strength of the banding of the wood stave pipe. Sufficient longitudinal steel was used to resist the maximum temperature stresses expected. The conduit was kept in service throughout the whole period during which the concrete was being poured.

Dominion Power and Transmission Company

The Commission acquired the properties of the Dominion Power and Transmission Company during the year, taking possession on August 14th. Included in these properties is the hydraulic plant at DeCew Falls, which draws its water supply from lake Erie via the Welland canal, and has a capacity of 52,000 horsepower. The operating head is 267 feet, and there is a storage basin of substantial capacity, which eventually will be of great value in conjunction with the existing plants of the Niagara system. Since the plant was acquired, some maintenance work has been done on the penstocks and tailrace.

GEORGIAN BAY SYSTEM

The first plant built by the Commission at Wasdells Falls, in 1913-1914, has been in continuous service since that time. Examination of the substructure of the power house some time ago showed that the concrete was eroded to a considerable depth, especially at and near water surface. Similar deterioration had taken place in the curtain wall of the power house, tailrace wall, and deck and piers of the dam.

The plant was shut down during the past summer, and complete repairs effected to the whole power house substructure and to the floors and piers of the sluiceways. Gunite was used liberally, and foundations of piers and sluiceway floors were thoroughly repaired.

Repairs were also required on the main dam at the Eugenia development. This dam is of the Ambursen type, having a thin reinforced slab supported on buttresses. It is the principal structure used to form the large storage basin upon which the development depends for its water supply in the prolonged periods of deficient river flow. Inspection of the dam from time to time showed deterioration of some of the concrete in the structure, due to the action of the water.

Repairs were effected, without interfering with the operation of the reservoir. The new part of the structure is independent of any original parts for strength or water-tightness. This dam was built in 1914, and these repairs are the first that have been necessary.

At the No. 2 plant at Bala, which was acquired by the Commission in 1929, where a single vertical propeller wheel is installed, it was necessary to reconstruct the throat ring and draft tube, which were found to be structurally weak.



CHATS FALLS DEVELOPMENT—OTTAWA RIVER
Main cofferdam from the downstream side

EASTERN ONTARIO SYSTEM

Chats Falls Development

Work has proceeded rapidly on this new development on the Ottawa river. At the beginning of November, 1929, surveys were in progress on both sides of the river at the power site, those in Ontario being carried out by the staff of the Commission, and those on the Quebec side by the Montreal Engineering Company. These surveys developed the topography of land surfaces and river bed upon which the permanent power development structures are being placed, and of the lands in the vicinity in any way affected by the works.

At that time also, work was proceeding upon the clearing of the site and flooded areas, the construction of the main upstream cofferdam, the building of a railway siding into the site and the erection of camps for living accommodation of the working force.

The main cofferdam closes the channel about 2,200 feet wide between Mohr and Kidney islands, and extends to high ground on Mohr and Victoria islands. The portion spanning the channel between Mohr and Kidney islands is a pier and stop-log structure, which will permit the passage of flood waters through certain of the chutes to the right of the power house site. The maximum flow of the river during the spring and early summer months of 1930 did not exceed 110,000 cubic feet per second, and it was therefore unnecessary to open the sluiceways in the cofferdam except for eighteen days in July, as the various chutes remaining unobstructed had sufficient discharging capacity to carry off the whole flow for all other periods at moderate stages of water level above the cofferdam. Behind the protection of the main cofferdam and in the channels unwatered by it, a secondary cofferdam was built to protect the power house site at times when the sluices are opened in the main cofferdam. The main and secondary cofferdams were completed by the middle of April, thus unwatering the power house site down to tailwater level. The tailwater cofferdam was under construction by this time.

The temporary buildings for accommodation of the working force are located on Victoria and Mohr islands. Provision is made for 1,440 men, half the space being provided on each of the islands named. A permanent railway connection to the Canadian National Railway, almost a mile in length, was built, and, in addition, more than two miles of standard gauge line to serve as construction railway. This latter line is carried from Kidney to Mohr island by the main cofferdam. Two permanent plate girder bridges were required for the permanent track.

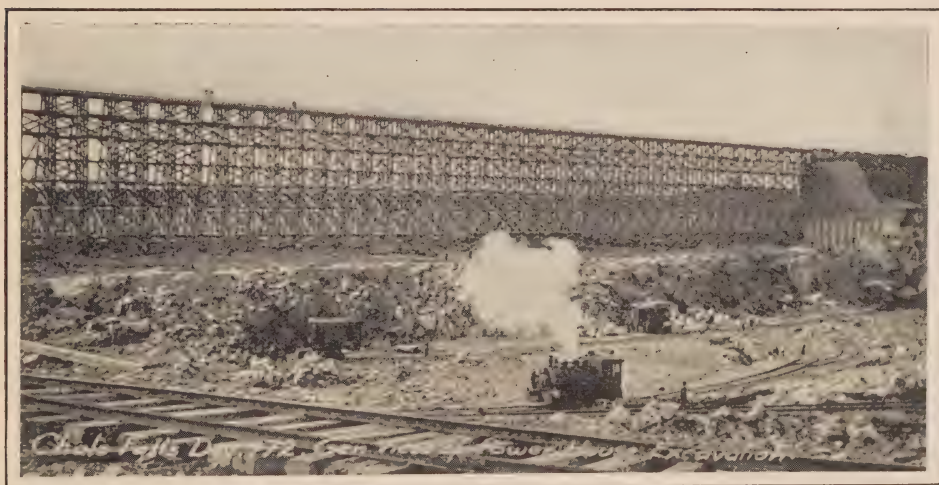
During the early months of the year, design of structures proceeded rapidly in the office, and the location of many of the permanent structures was finally determined based on conditions obtaining at the site. The location of the power house and sluice gates and the line of the dam between Chats island and Wolverine chute was determined after a careful examination of the ground.

During the spring months, rock excavation proceeded at the power house site, and preparation of the dam foundation for pouring of concrete had been completed at a number of places. Concreting was commenced in June on a section of the gravity dam on Mohr island. During the summer months, construction proceeded rapidly in many sections of the development. A great portion of the bulkhead section of the dam was completed, as also were the Ragged chute and Wolverine chute sluices. At the end of the year, power house excavation was completed and concrete was being poured in headworks and foundation.

The power house is designed to accommodate ten turbine units of 28,000 horsepower each, of which eight are to be installed at present, and the contract for these has been awarded to the Dominion Engineering Works of Montreal. The general contractors for the development are Morrow and Beatty of Peterborough and Toronto.

Madawaska District

Increased storage facilities were necessary on the Madawaska river, to enable the Calabogie development to meet increasing load demands during periods of deficient river flow. The Calabogie development is one of those purchased from the M. J. O'Brien Company over a year ago, along with other developed and undeveloped power and storage sites in the district. The plant



CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Ragged chute sluices completed, October 31, 1930

Bulkhead dam on Chabot Island to right of power house

General view of power house excavation, September 26th, 1930

had been called on to supply power for construction purposes at the new Chats Falls development on the Ottawa. To provide the required storage facilities, a dam at the outlet of Bark lake was rebuilt. The old dam was removed to the original apron level, and rebuilt to store a depth of six feet of water on the lake. The rebuilt dam is 350 feet long, half of rock-filled timber cribwork and half of earth fill.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Water flowing over spillwall

THUNDER BAY SYSTEM

The Alexander power development on the Nipigon river came into service in October, 1930. This development is the second constructed on the river by the Commission and, like the first, supplies power to the Thunder Bay system.

The Nipigon river from Lake Nipigon to Lake Superior has a fall of about 250 feet, varying slightly with the relative stages of water level in the two lakes. Of this head, the Cameron Falls development utilized 75 feet, and the Alexander development 60 feet. About 100 feet of head is still available for development above the Cameron Falls plant.

The last annual report gave a general description of the scheme of development, and showed views of the main and auxiliary dams taken toward the close of the construction season of 1929. With the opening of work in the spring of this year, work was pressed on the construction of the main dam, which is a semi-hydraulic earth fill. The heavy rock-filled toe that was built to ensure perfect drainage and to give stability to the dam, had been placed previously, and the foundation prepared before the present season. Material for the earth fill was obtained from borrow pits on the east bank of the river, whence it was taken in dump cars and dumped from trestles along each side of the central pool. Some of the borrow pits were in sand, while others were in pure clay, so that any mix desirable could be obtained by regulating the amount from each of the pits.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Main dam, looking toward power house

Sluicing was done by two monitors, each placed on a float in the segregation pool. Pressure was supplied by centrifugal pumps, direct connected to electric motors. The pumps were 6 inch by 6 inch two-stage units, equipped with nickel-iron impellers to resist the heavy abrasive action of water carrying a large percentage of silt. The total yardage in the dam is about 800,000 cubic yards, of which 650,000 cubic yards is semi-hydraulic fill, and from the time the season opened in May, up to the end of September, there were 580,000 cubic yards placed, the rate being greatest in June, when about 159,000 cubic yards were placed.

The nature of the river bed upstream from the dam called for a protecting blanket of clay. This was sluiced in from material on either side of the river to a depth ranging from four to six feet and extending upstream about 400 or 500 feet.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Headworks

In the interest of economy in the design of the headworks, the superstructure, usually considered necessary where low winter temperatures are experienced, was omitted. The motors and hoists for operation of the head gates are housed in a structure, about 7 feet high, along the upstream side of the power house. The placing and removal of stop-logs, racks and head gates is done by a locomotive crane operating on a standard gauge track on the headworks deck.

All openings over the stop-log and rack checks have matched plank covers fitted for quick handling, so that with the concrete curtain walls extending below low headwater level for each intake, the gate checks and racks are well protected. In addition to this, openings are provided, through which the warm air from the power house has free access to the space below the headworks deck. Provision has also been made for the provision of electric heaters, if found necessary.

Construction work was practically completed by the end of the third week in September, 1930. Plans were made for the closure of the outlets of the diversion channel to the left of the power house, through which all the water of the Nipigon river passed during construction of the dam. For several days before the closure, the headpond levels at the Cameron Falls station were regulated to meet the period of shut-down without wasting into the Alexander reach, and to allow ample time to draw down the Alexander headwater pool to permit the steel gates to be placed in the diversion sluiceways.

When the time came for making the closure, the gates were assembled above their respective openings, and suspended on "A" frames in readiness for lowering into the checks. On Sunday, September 28, at 4 a.m., the Cameron Falls plant was closed down and the flow in the river completely stopped, the forebay at the Cameron Falls plant receiving and holding the whole flow of the river coming down from lake Nipigon. By 7 a.m., the water in the Alexander reach had fallen so low that only a shallow stream was passing through the two sluices. The gates were dropped into place and sealed. At 10.25 a.m., the entire closure had been completed, and by 10.45 the Cameron Falls plant was again carrying load. Early the following morning, the forebay at Alexander had been filled to operating level, and water began to flow over the spillwall, and by evening the depth of flow over the spillwall was three feet. Under the full head, all structures proved to be entirely water-tight. The first unit was turned over on October 1, and commercial load was first carried on October 21.

NORTHERN ONTARIO SYSTEM

Nipissing District

Continuing a policy of progressively renewing and improving structures used for storage of water in this system, a concrete sluice and weir was built at the Craig Lake dam. This is one of a number of dams used to control the lakes tributary to the South river, for the purpose of conserving water for power development. The portions of the dam replaced were built of rock-filled timber cribwork. The new portions are thus of a much more permanent character.

Investigations were carried on regarding damages due to flooding on Wahnapiatae lake, and the rights to flood certain lands to an additional depth of two feet were purchased. The storage dam at the outlet of the lake was completed in time to conserve the spring run-off in 1930. A temporary side dam was built at plant No. 2.

Patricia District

The generating station at Ear Falls, on the English river, was completed early in the fiscal year, and the unit was first turned over on Christmas day, 1929. The plant was built to supply power for mining development in the district, and has been carrying such a load since the early part of the year. There is one unit, having a capacity of 5,000 horsepower under a head of 36 feet, but the plant is designed for extension later, if necessary, to develop 30,000 horsepower.

A control dam was built at Manitou rapids, on the English river, about 15 miles downstream from Ear Falls. The design and supervision of this was handled by the staff of the Commission for the Northern Development Branch of the Department of Lands and Forests of the Province of Ontario. A year ago, navigation improvements were made in the route by way of the English and Chukuni rivers to Red lake. During periods of deficient flow in the English river, navigation depths were reduced to such an extent as to hamper navigation in that part of the English river between Ear Falls and the mouth of the Chukuni river. The dam at Manitou rapids raises the water level in the English river between Ear Falls and Manitou, thus increasing the navigable depth.

HYDRAULIC INVESTIGATIONS**Nipigon River**

With the completion of the Alexander Power development on the Nipigon river, the lower portion of the river from the headwater of the Cameron Falls development to lake Superior is completely developed. There remains a potential development of somewhat more than 100 feet between the Cameron Falls development and lake Nipigon. Several alternatives are possible. The whole head may be developed at one site, or at two sites; in the latter method it is possible to make different divisions of the total head between the two sites. In order to permit careful study of the various possibilities, and to ensure the choice of the most economical arrangement, extensive surveys were carried out on this portion of the river and the topography was developed in detail at possible power sites. Studies of the information collected on this survey are progressing.

Investigations have also continued on a number of other prospective power developments on the Mississagi, Aux Sables, Musquash and South Muskoka rivers. Hydraulic tests were made at the Elliott Chute and Bingham Chute plants on the South river, and the Trethewey development on the South Muskoka.

St. Lawrence River

Reference was made in the last annual report to the appointment by the Ontario government of the chief engineer and chief hydraulic engineer as a committee to co-operate with the Canadian section of the Joint Engineering Board, which has been investigating power and navigation developments on the river. A number of conferences were held and a plan agreed upon, by which differences in various Canadian schemes for development of the International reach of the river were adjusted.

In connection with the proposed development of the St. Lawrence river, further studies were made respecting the protection of the villages of Morrisburg and Iroquois from flood damage.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

NIAGARA SYSTEM

Generating Stations on the Niagara River

Number ten generator at Queenston generating station with transformers and switching equipment was placed in service in July. The generator differs from the other machines in that it is a totally enclosed unit and the cooling air is re-circulated through water-coolers. An automatic system of fire-protection apparatus using carbon dioxide was permanently installed with No. 10 generator. Similar equipment was completed for the other generators.

Transformer and Distributing Stations

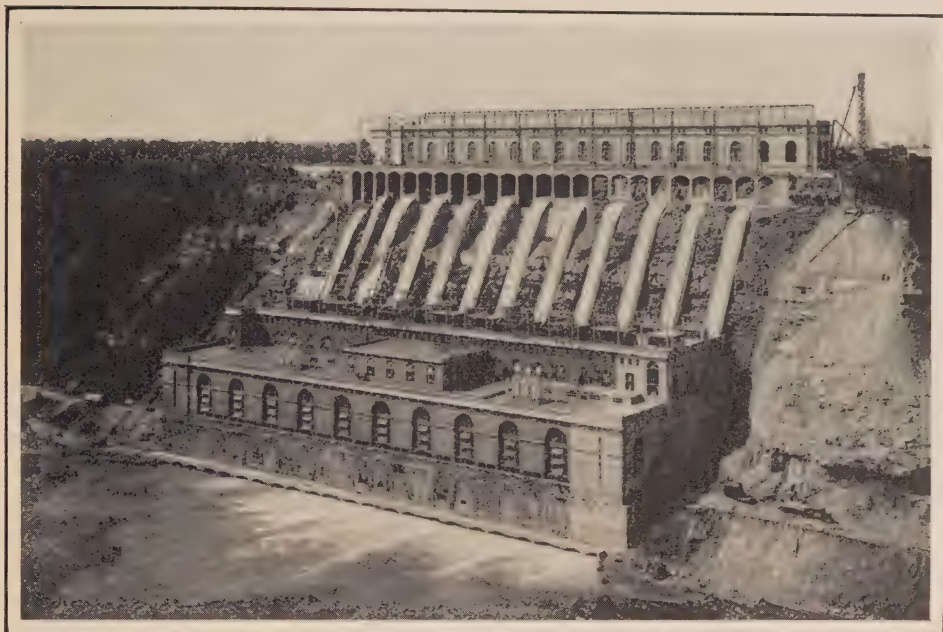
Niagara District—The new transformer stations at Welland, Thorold, Port Colborne and Cyanamid mentioned in last year's Annual Report were completed during the year.

A new pole-type station known as Beaverdam distributing station, consisting of a bank of three 150-kv-a. transformers and the necessary switching and metering equipment, was installed at the Thorold transformer station site.

Increased transformer capacity was provided at Lincoln distributing station by replacing one of the 300-kv-a., three-phase transformers with a bank of three 250-kv-a. units, and at Port Colborne distributing station by replacing the star-connected 1,500-kv-a., three-phase transformer with two 1,500-kv-a. units delta-connected on the high-voltage side.

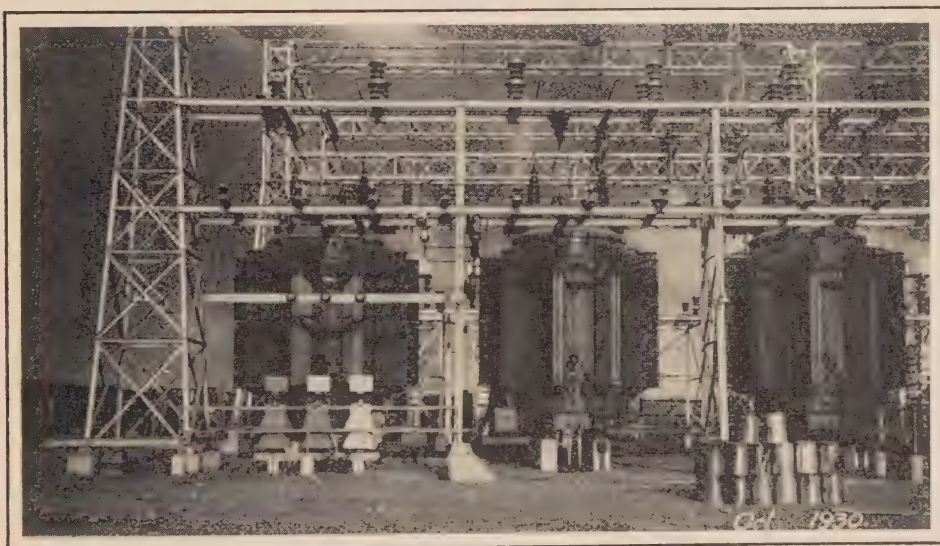
Changes were made in the switching equipment at Port Colborne transformer station and Welland switching station, and changes to metering equipment were made at Grimsby distributing station and at the metering stations at Niagara Falls municipal station, International Nickel, Lionite Abrasives Limited and Interlake Tissue mills.

Engineering assistance was given to the municipality of Dunnville in the purchase and installation of three 300-kv-a. transformers to replace a bank of three 150-kv-a. units, together with necessary changes in switching equipment, and to the municipality of Merritton in the installation of additional 2,300-volt feeder equipment.



QUEENSTON GENERATING STATION—NIAGARA RIVER

The completed station as seen from the United States side of the river
showing the addition for the tenth unit at the north end



PORT COLBORNE TRANSFORMER STATION

Hamilton and Dundas District—Authorization has been given and work is well advanced on a new outdoor, 110,000-volt transformer station in Hamilton at the corner of Cannon and Stirton streets to be known as Hamilton-Stirton transformer station. The plans include the installation of four 5,000-kv-a. transformers, with steel structures and switching equipment for one 110,000-volt incoming line and three 13,200-volt outgoing feeders. The station will be placed in service before the end of the year.

In addition to the completion of the work, authorized last year, at Hamilton transformer station, further work is well advanced on a new 110,000-volt outgoing line equipment to supply power to the Hamilton-Stirton transformer station.

Improved switching and protection facilities were provided at Dundas transformer station by the replacement of some obsolete 110,000-volt oil circuit-breakers and lightning-arresters by modern equipment.

The three 5,000-kv-a. transformers purchased last year for Dundas transformer station were not installed. One of these will be used as a spare at Dundas, while the other two will be transferred to system reserve and moved to Hamilton transformer station, where they will be placed on foundations with the spare unit already there, ultimately forming the fourth bank.

At Dundas rural power district distributing station, increased transformer capacity was provided by the installation of three 250-kv-a. transformers replacing a bank of three 150-kv-a. units. Additional capacity was also provided at Caledonia distributing station by the installation of a fourth 300-kv-a., three-phase transformer.

Improvements were made at Decewsville and Hagersville distributing stations by changes in the metering equipment.

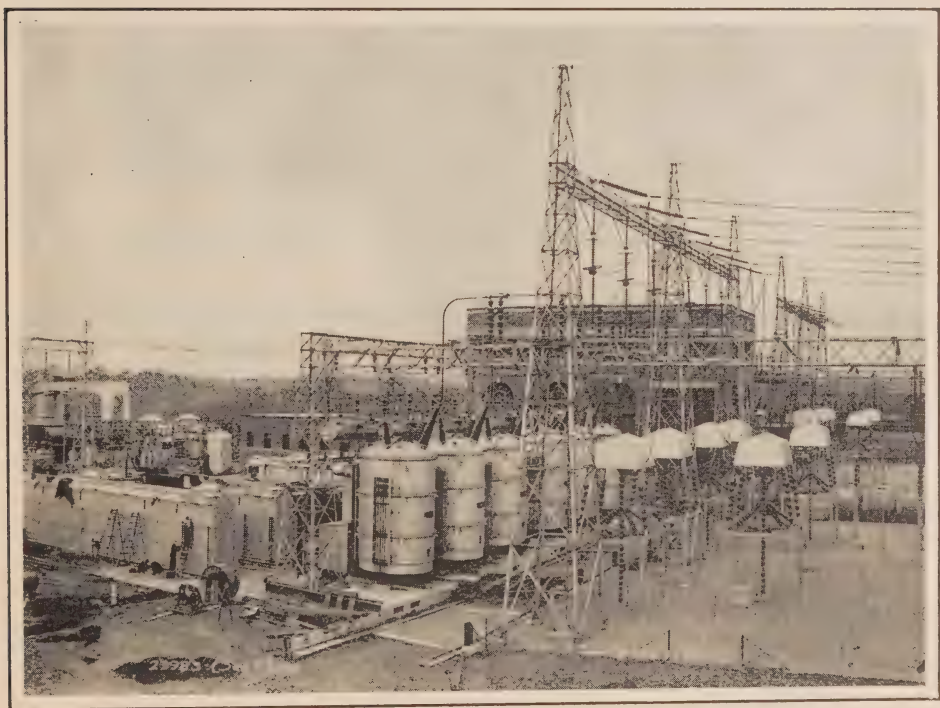
Toronto and York District—At Toronto-Leaside transformer station, work has proceeded on the erection of the equipment and structures required to receive the final blocks of power on the present Gatineau contract. This includes the erection of the third and fourth 25,000-kv-a. synchronous condensers and the necessary switching, auxiliary and control equipment, the installation of the third and fourth banks of transformers, the four 220,000-volt oil circuit-breakers and the 13,200-volt switching equipment mentioned in last year's Annual Report. The 13,200-volt equipment does not duplicate that previously installed, but consists of an installation of outdoor metal-clad switchgear. The major portion of the work is completed and all the equipment will be in service before 1931.

Improvements at Toronto-Strachan avenue transformer station include the installation of new relay equipment on the six transformer banks, the purchase and installation of new ammeters for the four 110,000-volt lines and lighting and ventilation equipment for the transformer station, also the replacement of an obsolete 110,000-volt oil circuit-breaker with one of modern design.

At Toronto-Bridgman transformer station the installation of the four new oil circuit-breakers in the 110,000-volt line position mentioned in the last year's Annual Report, was completed. Authorization was given for the installation of a 30,000-kv-a. bank of transformers, a spare 10,000-kv-a. unit and necessary 110,000-volt and 13,200-volt switching equipment. An order has been placed for seven 10,000-kv-a. transformers, three of which will be later used to replace 5,000-kv-a. units.



TORONTO—LEASIDE TRANSFORMER STATION
Outdoor Synchronous Condensers 25,000 kv-a. capacity



TORONTO—LEASIDE TRANSFORMER STATION
No. 3 and No. 4 Transformer Banks and 13,200-volt equipment

Authorization was given for the purchase and installation of a new high-interrupting-capacity oil circuit-breaker at Toronto-Wiltshire transformer station to replace one of lower interrupting capacity. This work was completed in March.

At York Mills distributing station it was found necessary to rewind the old 300-kv-a., 12,000-volt transformers for 13,200-volt service. The transformers with new windings were replaced in service in February.

Improvements in the metering equipment were made at Sharon distributing station.

Two new semi-outdoor stations were erected and placed in service, namely, Woodbridge and Toronto Township (Rifle Ranges) distributing stations, using three new 250-kv-a. single-phase units at each station. The old Woodbridge distributing station was dismantled.

An additional 3,000-kv-a. transformer has been purchased for New Toronto distributing station to replace an existing 1,500-kv-a. unit. The breakers, bus supports and feeders are being replaced by heavier capacity equipment. The work should be completed in 1931. The 3,000-kv-a. transformer purchased a year ago as a spare unit was installed and placed in service.

London District—Increased transformer capacity was provided at Dashwood distributing station by the addition of a bank of three 75-kv-a. transformers, together with the necessary pole-structure and switching equipment, and at Dorchester distributing station by the replacement of the indoor bank of three 75-kv-a. transformers with an outdoor bank of three 150-kv-a. units.

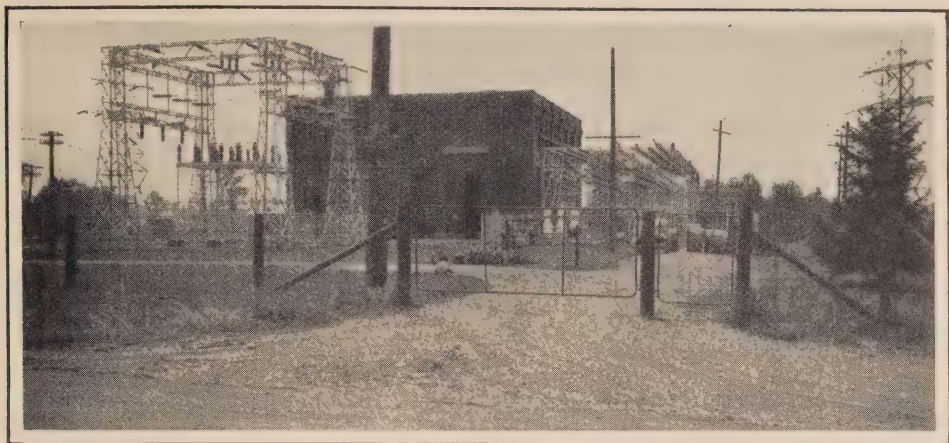
Authorization was given for the purchase and installation of a bank of three 75-kv-a., 4,000/4,600-volt transformers with switching and metering equipment to be known as Strathroy rural power district distributing station to supply power at 8,000-volts to the surrounding rural district from the 4,000-volt bus in Strathroy municipal station. Work was completed in October and the installation is ready to be connected into service.

Work was completed on the installation of two rural feeder-equipments at Glendale distributing station.

Guelph District—A second bank of 2,500-kv-a. transformers is being installed at Guelph transformer station. Two indoor 110,000-volt oil circuit-breakers and lightning-arresters are being replaced by two new breakers and lightning-arrester outdoors. The indoor 13,200-volt oil circuit-breakers are being removed and new breakers installed outdoors. The circuit-breakers are being made electrically operated and the relay protection is being improved. The present low-voltage room will be converted into a control room. The new equipment should be in service before the end of the year. A 2,300-volt feeder was installed to supply power to Guelph rural district.

The transformer capacity of Acton distributing station was increased by the installation of a new bank of three 250-kv-a. single-phase transformers replacing the three 75-kv-a. units. A 4,000-volt feeder was installed in Georgetown distributing station to supply power to the rural district.

Preston District—The station capacity was increased at Preston rural power distributing station by the installation of a bank of three new 250-kv-a. transformers replacing the three 150-kv-a. units. A three-phase 1,500-kv-a.



GUELPH TRANSFORMER STATION

transformer was purchased and installed in Hespeler municipal station replacing three 170-kv-a. units. Engineering assistance was given in the purchase of a 1,500-kv-a. transformer and switching equipment for Preston municipal station. Working drawings were made up and the construction work supervised.

Kitchener District—The necessary switching equipment was installed at Kitchener transformer station to connect in a 110,000-volt line to Hanover frequency-changer station for the supply of power to the Georgian Bay system.

Stratford District—A bank of three new 500-kv-a. transformers was installed at Listowel distributing station, replacing three 200-kv-a. units which were removed to and installed at Palmerston distributing station. A bank of three 150-kv-a. transformers released from the latter station was installed at Harriston distributing station and the 75-kv-a. units removed and transferred to system reserve. New lightning-arresters were installed on the incoming 26,400-volt lines at Milverton and Palmerston distributing stations.

St. Marys District—The 1,500-kv-a. three-phase transformer and three 500-kv-a. transformers in service at St. Marys Cement Company's distributing station were removed and installed in a new building erected by the Cement company. A new 1,500-kv-a. three-phase transformer was also purchased and installed in the new building, together with the necessary switching equipment.

St. Thomas District—St. Thomas transformer station capacity was increased when No. 1 bank of three 750-kv-a. transformers was replaced by a bank of three 1,250-kv-a. transformers.

Brant District—New lightning-arresters and air-break switches were purchased and installed on the 26,400-volt incoming lines at Ayr, Burford and Drumbo distributing stations. The necessary equipment was installed in Simcoe municipal station for a 4,000-volt feeder to supply power to the American Can Company. Engineering assistance was given in the purchase and installation of four new 2,300-volt feeder-panels with larger breakers, and a 24-volt battery with charger in Paris municipal station.

Cooksville District—The transformer capacity at Streetsville distributing station was increased by the purchase and installation of a bank of three new 250-kv-a. transformers replacing three 150-kv-a. units.

Kent District—Three 75-kv-a. transformers at Bothwell distributing station on the Glencoe-Newbury-Wardsville and rural feeder were replaced by a bank of three new 150-kv-a. units and the feeder was changed from 4,000 to 8,000-volts. Engineering assistance was given in the purchase and installation of a new 3,000-kv-a. three-phase transformer and current-limiting reactors in Chatham municipal station. Lightning-arresters and air-break switches were purchased and installed on the incoming 26,400-volt lines at Bothwell and Thamesville distributing stations.

Essex District—Work is underway for the installation of the fourth bank of three 5,000-kv-a. transformers in Essex transformer station. The transformers are purchased and installed, also all other necessary equipment, and will be placed in service in November of this year.

Engineering assistance is being given the Windsor Hydro-Electric system in the purchase and installation of an additional 3,000-kv-a. transformer and two induction regulators.

The capacity of Walkerville Junction distributing station was increased by the installation of a bank of three 250-kv-a. transformers replacing three 150-kv-a. units. Similarly, at Harrow distributing station a 300-kv-a. three-phase transformer was replaced by a bank of three new 250-kv-a. units.

Engineering assistance was given to the Windsor, Essex and Lake Shore Electric Railway Association in the purchase and installation of transformers, rotary-converters and switching equipment for three automatic 500-kw. rotary-converter stations at Maidstone, Cottam and Ruthven.

St. Clair District—Engineering assistance was given the Sarnia Hydro-Electric system in the preparation of plans and specifications for an extension to its municipal station No. 2 and in the purchase and installation of equipment for additional feeders

GEORGIAN BAY SYSTEM

Severn District—A new 50-kv-a. single-phase station was erected at Fergusonvale switching station. A bank of three new 1,000-kv-a. transformers and necessary switching equipment were purchased and installed at Barrie distributing station. The capacity of Innisfil distributing station was increased with the purchase and installation of a bank of three new 150-kv-a. transformers replacing the two 50-kv-a. units which were placed in system reserve. A 300-kv-a. station was erected at Painswick, three 100-kv-a. single-phase transformers being purchased for this installation. An outdoor station was erected at Midhurst to supply power to the rural district. For this installation, a three-phase, 75-kv-a. transformer was obtained from system reserve. A brick building for store-house, garage, workshop and office was erected at Waubaushene despatching station.

Eugenia District—Authorization was given for the installation of a frequency-changer station at Hanover to connect the 60-cycle Georgian Bay system with the 25-cycle Niagara system. A frequency-changer of 5,000-kv-a. capacity was purchased and installed in a building erected for the purpose. Seven 750-kv-a., 110,000/6,600-volt, 25-cycle transformers were transferred from Niagara system, a bank of three 2,500-kv-a., 22,000/4,400-volt, 60-cycle outdoor transformers and the necessary switching equipment were purchased and all installed and placed in service on September 6, 1930.

Two 1,500-kv-a. auto-transformers referred to in last year's Annual Report were placed in service at Eugenia generating station. A 750-kv-a. three-phase transformer was obtained from Hanover distributing station and installed on the Walkerton generating station site to tie in the Georgian Bay system with the newly acquired Foshay system. Similarly at Southampton a bank of three new 150-kv-a. single-phase transformers were purchased and are being installed in a new pole-type outdoor station on the generating station site.

A bank of three 75-kv-a. transformers was removed from Southampton generating station and installed and placed in service at the distributing station. A new 300-kv-a. station was also erected, using three new 100-kv-a. single-phase transformers. A new 75-kv-a. station was erected at Tara using a 75-kv-a. three-phase transformer obtained from system reserve. The bank of three 150-kv-a. transformers in service at Chesley distributing station was replaced by three new 250-kv-a. units.

Wasdells District—Three 150-kv-a. transformers released from Chesley distributing station were installed at Kirkfield distributing station replacing three 75-kv-a. units which were transferred to system reserve. Three new 25-kv-a., 2,300/575-volt transformers were also purchased and installed at this station to replace three 10-kv-a. units. The Greenbank distributing station was dismantled and the 300-kv-a. three-phase transformer was installed in a new station erected at Port Perry. Greenbank is now supplied from a 4,000-volt, single-phase feeder out of the Uxbridge distributing station. A station was erected at Uxbridge and a new 300-kv-a. transformer purchased for this installation.

Muskoka District—A 300-kv-a. station was erected and placed in service at Utterson, three new 100-kv-a. single-phase transformers being purchased for this purpose. A spare 400-kv-a. transformer was purchased for Gravenhurst distributing station.

Bala District—A bank of three new 150-kv-a. transformers and the necessary switching equipment were purchased and installed at Bala where a new station was erected. Provision was made at this station for future capacity of 1,500-kv-a.

EASTERN ONTARIO SYSTEM

Central Ontario District—A 300-kv-a. station using a bank of three new 100-kv-a. single-phase transformers was placed in service at Cataraqui to supply power to the surrounding rural district. A single-phase, 100-kv-a. station known as Consecon distributing station was installed to supply power

to Wellington rural district. Quarries distributing station was dismantled and the 300-kv-a. transformer was transferred into system reserve and stored at Lehigh distributing station. A new 1,500-kv-a. station was placed in service at Trenton, using two 750-kv-a. three-phase units which had previously been in service on the system. A fourth 750-kv-a. three-phase transformer released from Howard Smith Paper Company's distributing station was installed in Belleville distributing station No. 1.

St. Lawrence District—The capacity of Brockville distributing station was increased by the installation of a new 1,500-kv-a. three-phase transformer replacing a 750-kv-a. unit. Two 750-kv-a. transformers which were in service at Cornwall Howard Smith Paper Company's distributing station were replaced by a 3,000-kv-a. and a 1,500-kv-a. three-phase unit. An extension was made to the building to accommodate the additional switching equipment necessary. A new station was installed at Cardinal, using a 300-kv-a. three-phase transformer from system reserve. A store-house and garage building were erected on the Commission's property at Morrisburg.

Metering equipment was installed in the temporary station of the Atlas Construction Company which supplies power for construction of Lower Lakes Terminal Elevator at Prescott.

Rideau District—A 750-kv-a. transformer was installed and placed in service at Perth distributing station, replacing a bank of three 200-kv-a. units. The latter were later installed at Carleton Place distributing station. The 300-kv-a. transformer in the temporary Rideau transformer station was replaced by a new 1,500-kv-a. unit thus increasing the tie capacity to the 26,000-volt lines.

Madawaska District—Synchronizing and relay equipment were installed at Galetta generating station. Telephone equipment was also installed at this station and the Paugan-Leaside telephone circuit looped in and connected to Chats Falls and Arnprior circuits.

A bank of three 150-kv-a. single-phase transformers was obtained from reserve and installed temporarily at Arnprior distributing station to augment the capacity. This bank has since been replaced by a bank of three 500-kv-a. units. Two 750-kv-a. three-phase transformers were purchased and installed at Chats Falls construction station to supply power for the construction work on the Chats Falls development.

THUNDER BAY SYSTEM

Generating Stations on the Nipigon River

The first generator at Alexander power development was placed in service on October 15, 1930. The second and third units should be in service before the end of the year. The transformers, switching equipment and all other necessary apparatus were purchased and the construction of the station nearly completed during the year.

The station is situated about one and a half miles down the river from Cameron Falls generating station. There are three 15,000-kv-a., 13,200-volt, 60-cycle vertical shaft generators and three 15,000-kv-a., 12,000/110,000-volt,

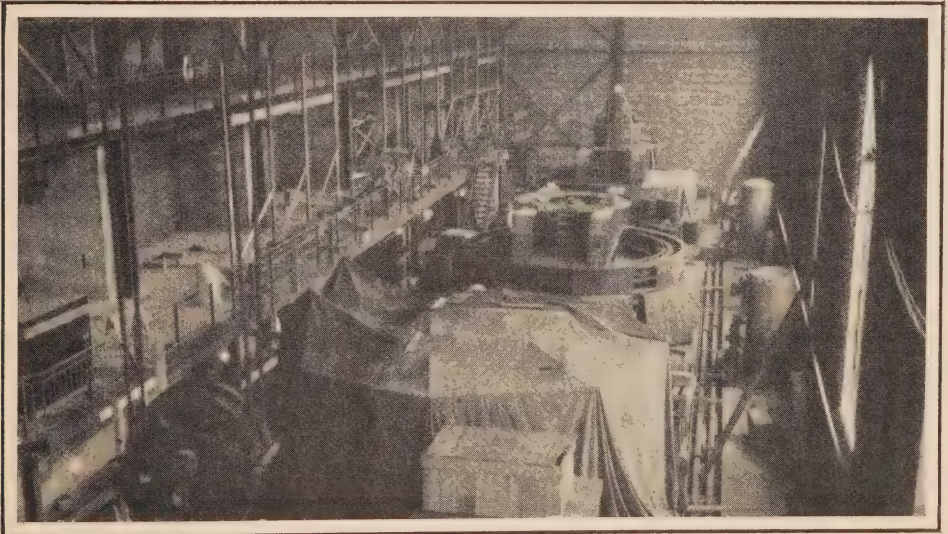


ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

General view of generating station from downstream side
Capacity of plant when completed will be 54,000 horsepower

60-cycle outdoor type, self-cooled transformers with an overload capacity of 22,500-kv-a. The higher capacity is obtained by the use of a motor-driven blower which directs the air on to the external radiators, increasing the radiation of heat therefrom.

The entire 12,000-volt switching and bus connections consist of metal-clad equipment so constructed as to fit the various bays and form a ring bus system. The oil circuit-breakers are all electrically and mechanically interlocked with the disconnecting switches to guard against faulty operation.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Generator room under construction, showing three units in process of installation, September, 1930

The 15,000-kv-a. transformers are located outdoors approximately 250-feet from the generating station and can be transported to the erection room in the generating station on a specially designed truck.

There are no 110,000-volt oil circuit-breakers or bus connections as the transformers are considered as part of the 110,000-volt transmission lines and are cleared by the 12,000-volt oil circuit-breakers or the 110,000-volt breakers at the receiving end of the lines.

The entire station is controlled electrically from a central desk in the control room. The control switches are all of the standard telephone type mounted on the top of the desk 72 by 30 inches.

This station will ultimately be controlled from Cameron Falls generating station by use of remote control equipment.

The relay protection consists chiefly of zone protective systems.

The station service power is supplied from a bank of three 250-kv-a., 12,000/575-volt transformers and an open delta bank of two 250-kv-a. transformers. The latter can be supplied from Cameron Falls generating station.

Transformer and Distributing Stations

The necessary switching equipment and supporting structures for a third 110,000-volt line have been purchased and installed at Port Arthur transformer station. The necessary 22,000-volt equipment was purchased and installed at Fort William transformer station to permit synchronizing the Kaministiquia Power Company's system with the Thunder Bay system.

NORTHERN ONTARIO SYSTEM

Nipissing District—Semi-automatic remote control equipment was installed and placed in service to effect the control of the 1,800-kv-a. generator at Elliott Chute generating station from the Bingham Chute generating station. The station service in the latter station was changed from single to three-phase. Lightning-arresters were installed on the Powassan feeder and a portable air-compressor installed. Lightning-arresters were also installed on 2,300-volt feeders and bus at Nipissing generating station.

Patricia District—The generating station at Ear falls was completed and placed in service in December, 1929.

Sudbury District—Lightning arresters were installed on the Burwash 2,300-volt feeder and station bus.

In co-operation with the Ontario Power Service Corporation engineering work was done relating to the design of its generating station and equipment on the Abitibi river at Abitibi Canyon.

POWER DEVELOPMENTS UNDER CONSTRUCTION

Chats Falls Development

Engineering work has been carried out for the Chats Falls Executive Board in the design and construction of a generating station on the Ottawa river near Fitzroy harbour known as Chats Falls development.

Eight 23,500-kv-a., 13,200-volt, 25-cycle, 125-r.p.m., vertical shaft generators have been purchased, four of which will be installed in 1931 and the remainder in 1932. Two 90-ton travelling cranes have also been purchased. The design of the station is well advanced and working drawings are being prepared.

Chats Falls Transformer Station

A step-up transformer station is being built near Chats Falls development to transform the generated voltage from 13,200 to 220,000-volts for transmission of power to Toronto. Thirteen 15,700-kv-a., 220,000/13,200-volt, 25-cycle, water-cooled, single-phase transformers have been purchased and the design of the station is well underway.

Beauharnois and Maclaren Developments

Engineering work was done in co-operation with the engineers of the Beauharnois Light, Heat and Power company and Maclaren Corporation relative to the design of their respective generating stations and equipment, and in accordance with the contracts for the supply of power to the Commission.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

Extensive additions have been made during the past year throughout the Commission's transmission systems. The most important of these are the completion of the second 220,000-volt circuit between Pagan Falls and Toronto and the construction of a 110,000-volt, tie line between the Niagara and Georgian Bay systems.

New lines were built and revisions were made to the lower voltage lines. This involved all systems, special attention being paid to lines in the Niagara Peninsula.

Work involved in the renewal of railway crossings, which have been operating for 15 years or more, has progressed favourably.

During 1930, the Northern Ontario system which includes the Patricia and Sudbury districts was formed, and the D.P. & T. system was purchased; this is being incorporated in the Niagara system.

In addition to the following synopsis a map showing all transmission lines of the Commission is included at the back of this report and relative data are tabulated in Appendix II.

NIAGARA SYSTEM

220,000-volt Lines

The second link between the Gatineau Power Company, in Quebec, and Leaside high-tension station has been made by the completion of the second 220,000-volt circuit. This line is now in operation and with the first circuit, provides sufficient capacity to deliver all the power required at present from the east, for the Niagara system.

110,000-volt Lines

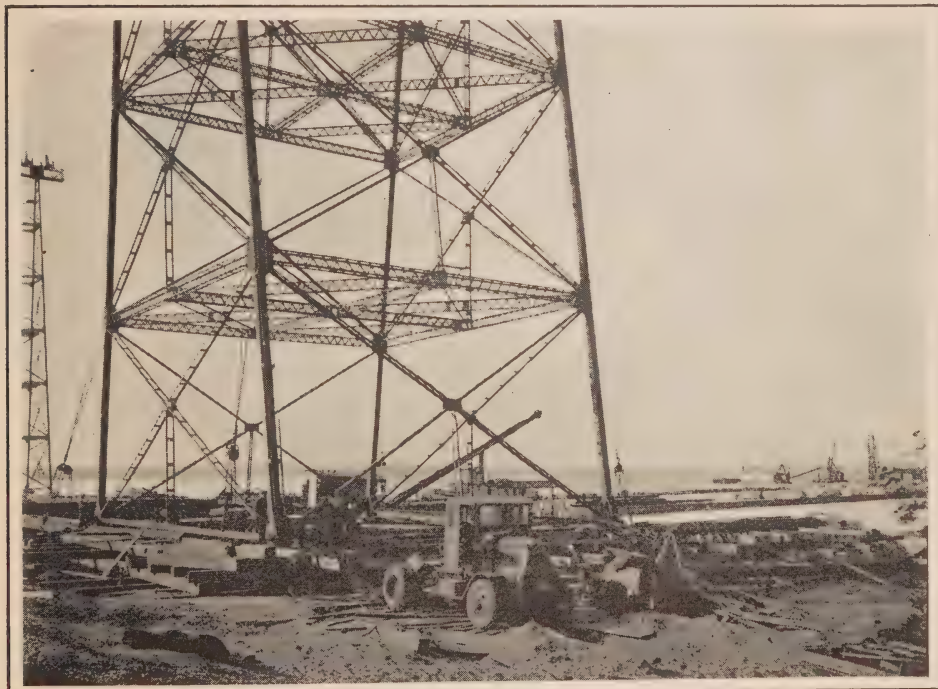
Industrial and transportation developments at Burlington Bay necessitated moving crossing structures, carrying circuits over the enlarged Hamilton harbour entrance canal.

Between a point on the Kitchener to Stratford 110,000-volt steel-tower line and Kitchener transformer station, a new circuit, 2.84 miles in length, was added



GATINEAU-TORONTO TRANSMISSION LINE—220,000 VOLTS

View shows three circuits on separate towers



MOVING 180-FEET HIGH TOWERS INTACT AT BURLINGTON CANAL CROSSING

to existing towers. This forms part of the new tie line between the Niagara and Georgian Bay systems.

Insulation was added to 4.5 miles of double-circuit, 90,000-volt lines between Islington junction and Bridgman transformer station, in order to operate at 110,000 volts. Four 110,000-volt circuits are now available between these stations. The old 190,000 circular-mil, copper conductor between Wiltshire junction and Wiltshire transformer station was replaced by 477,000 circular-mil, steel-reinforced aluminum.

Rearrangement of the 110,000-volt lines at Guelph transformer station was made to accommodate extensive changes at the station. An additional tower was erected at Kitchener to provide better clearances.

Power at 60,000 volts was supplied to the new transformer station at Port Colborne, over steel-tower lines recently constructed, from connections to 60,000-volt lines at Montrose junction and Wabash junction. This necessitated the construction of a short section of single-circuit, wood-pole line through the village of Humberstone. Three double-circuit, steel towers were added to complete the circuits to Port Colborne transformer station. In all this construction in the Port Colborne district provision has been made for 110,000-volt operation.

Rearrangements were made with 90,000-volt circuits between Niagara Falls and Fonthill to utilize them as 60,000-volt circuits, thus giving alternative routes to Thorold and Port Colborne. Portions of the 60,000-volt lines were reinsulated with 110,000-volt, pin-type insulators.

26,400-volt Lines

Conductors between the junction and the L.E. & N. railway substation at Brantford were replaced, in order to increase conductivity. Circuits and switches, at Brantford municipal station, were revised to co-ordinate the present lines with a new municipal station installed near the L.E. & N. railway. A new single-circuit, wood-pole line—2.95 miles—was erected to supply power to a new customer near Burford.

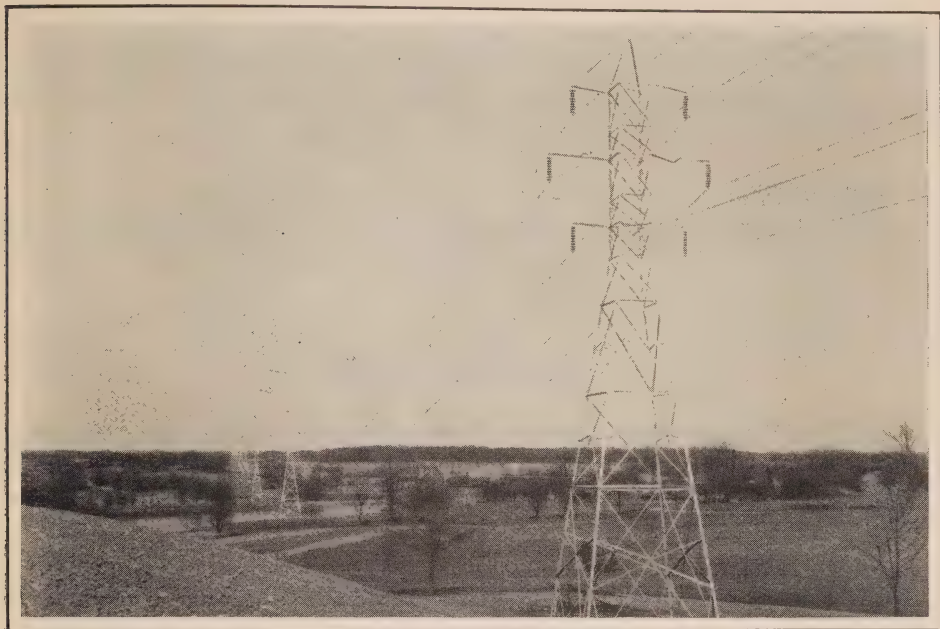
A single-circuit, wood-pole transmission line was built between Essex transformer station and Essex distributing station. The line is 14.30 miles long and includes air-break switches at Maidstone. Approximately 10 miles is on W.E. & L.S. electrical railway right-of-way and provision is made for trolley masts and signal circuits.

Between Cottam Junction and Leamington—3.65 miles—the existing pole line was rebuilt and at Cottam junction, switches were added to accommodate a short line to Cottam distributing station. Provision was also made on this line for co-ordination with the W.E. & L.S. electric railway wherever its right-of-way is used. Air-break switches were added at Ruthven junction.

Other Lines

A portion of one of the double-circuit 12,000-volt lines was removed from Stanley street, Niagara Falls, and rebuilt on H.E.P.C. right-of-way.

Extensive repairs were made to 13,200-volt lines in the town of Dundas, including the removal of some sections, the rerouting of others to shorten transmission distances, and the replacement of conductor where required.



QUEENSTON-ST. THOMAS 110,000-VOLT TRANSMISSION LINE

View taken near Caledonia, looking east across Grand River

Between Lucan and Exeter, a portion of the 13,200-volt line was moved on account of a revision to the provincial highway.

Between Guelph transformer station and Georgetown distributing station—31.58 miles—defective insulators were replaced and guys were added. Conductors were replaced between Guelph transformer station and the Ontario Agricultural College to provide better conductivity. A portion of the line in Acton was diverted on account of changes in the route of the Provincial highway. Rearrangements were also made to 13,200-volt lines in Guelph transformer station yard, made necessary by the erection of a new low-tension station.

Between Hespeler junction and Galt, the 13,200-volt double-circuit line was reinforced by the addition of guys and braces.

Between Kitchener transformer station and Waterloo municipal station—1.88 miles—a single-circuit, wood-pole line was constructed. This made possible the removal of one circuit from the old line and provides an alternative route which insures better service to Waterloo.

Construction of a double-circuit, 12,000-volt line—1.15 miles—was completed between Toronto Power Transformer station and Chippawa junction. This line replaces 3.57 miles of old line which was removed.

Two single-circuit, twin-pole lines each 0.28 miles long were built between Port Colborne transformer station and International Nickel Co. The conductors used were 1,033,500 circular-mil aluminum. This is the largest conductor strung on any of the Commission's transmission lines. The existing poles were dismantled and used in the construction of the twin-pole structures.

Due to the Welland Ship Canal construction at Port Colborne, old submarine and overhead 12,000-volt crossings were removed. Arrangements were made with the Government for crossings at a more suitable point. Transmission lines were removed between Thorold Junction and Ontario Paper Co. and between Lincoln junction and the south side of the Welland Canal.

D.P. & T. System

Since taking over this system, previously owned by the Dominion Power and Transmission Company, work has been progressing in bringing the transmission lines to the Commission's standards.

GEORGIAN BAY SYSTEM

From a new circuit provided near Kitchener, to Hanover frequency-changer station, a distance of 55.83 miles, a single-circuit twin-pole, 110,000-volt tie line was constructed. This line provides a tie between the Niagara and the Georgian Bay systems.

Between Big Chute generating station and Bala distributing station, 16.25 miles of single-circuit, twin-pole, line was built to accommodate an increased power demand in the vicinity of Bala. The line is designed for 38,000-volts but at present is operated at 22,000 volts. The line was routed to pass close to the location of a proposed development at Ragged Rapids.

Severn District

Ground cable clamps throughout the district and air-break switches located south of Barrie were replaced by more modern types.

The new Fergusonvale distributing station was placed in service by the completion of a short stretch of 22,000-volt line tapping the main line to Barrie.

Eugenia District

Construction of 12 miles of single-circuit, 22,000-volt line was completed between Tara distributing station and Southampton distributing station. Between Hanover frequency-changer station and Chesley distributing station the line was extended 13 miles north to intersect existing lines at Tara, and by the reinforcement of this latter circuit, easterly to intersect the Owen Sound line, a loop was established and provision made for alternative power supply to the Owen Sound area.

Replacement was made of the old No. 9 iron circuit between Kilsyth junction and Kilsyth distributing station—4.80 miles—by larger conductors. Obsolete switches were replaced by modern ones on lines in the Eugenia district and a new 3-pole entrance structure was completed at Hanover frequency-changer station.

Wasdells District

Old type air-break switches and ground cable clamps were replaced throughout this district.

Muskoka District

Old type air-break switches located at Utterson were replaced by swivel type.

EASTERN ONTARIO SYSTEM

An air-break switch was erected near Richmond on the 110,000-volt line, for the purpose of facilitating the location of line faults on this circuit which extends from Ottawa to Smiths Falls.

Central Ontario District

Air-break switches were erected on the 44,000-volt lines at Whitby junction and on either side of the elevator tap at Kingston. Disconnecting switches were removed from Belleville switching station and re-erected at Napanee.

Between Belleville switching station and the line to Belleville distributing station No. 1—1.30 miles of 44,000-volt, pin-type transmission line—was constructed.

St. Lawrence District

A short stretch of 44,000-volt line was built to supply power to a new customer near Prescott and to the new Government elevator.

Rideau District

The replacement of obsolete air-break switches on transmission lines has been continued during 1930 and includes those at Perth distributing station, Carleton Place Junction, Merrickville generating station and Smiths Falls tap.

A portion of the 26,400-volt, wood-pole line between Smiths Falls and Merrickville was relocated to conform to road improvements carried out by the County of Lanark.

Madawaska District

Between Calabogie generating station and Burnstown junction a 33,000-volt line was constructed. This ties with the line between Burnstown junction and Arnprior transformer station which was restrung with larger conductors. Between Galetta junction, on this line, and Chats Falls, a new 33,000-volt circuit was erected to supply power for construction at the Chats Falls generating station.

THUNDER BAY SYSTEM

A portion of the 110,000-volt, wood-pole line in the vicinity of Alexander power development was relocated due to higher water levels existing upon the completion of this development.

A second circuit was added to the 110,000-volt, steel-tower line between Cameron Falls and Port Arthur. From a point on this line to Alexander generating station two double-circuit, 110,000-volt, steel-tower lines were constructed and placed in operation.

NORTHERN ONTARIO SYSTEM

Nipissing District

Work in this district was confined to minor adjustments to lines and the replacement of some aluminum conductor with steel-reinforced aluminum in the vicinity of Callendar distributing station.

Patricia District

Progress is reported on the new high-voltage, steel-tower line between Sudbury and Hunta where connection will be made to the line to the Hudson's Bay Power Company.

Sudbury District

Three single-circuit lines, totalling 34 miles, were acquired by the Commission during the past year. These lines are used to supply power to Sudbury and to mining industries, in the district.

TELEPHONE LINES—ALL SYSTEMS

The communication systems of the Commission are becoming inadequate to carry the increase in traffic due to the operation of new systems and the centralization of management of numerous rural power districts throughout the Province. A start has been made to reinforce this service and is progressing.

Between Niagara Falls and Toronto, two existing circuits were rearranged to provide a phantom circuit.

Between Kitchener and Hanover, a new circuit has been constructed. This circuit, being in addition to those existing, provides an alternate path for communication between the Niagara and Georgian Bay systems.

New telephone circuits were provided on transmission lines built between Big Chutes generating station and Bala.

In the Madawaska system, a telephone circuit was provided on the new transmission lines between Calabogie and Burnstown, Arnprior and Chats Falls. One circuit was added between Burnstown and Arnprior. A switching point was installed at Galetta which makes possible communication from the Head Office in Toronto to all points on this system.

Telephone circuits in the Nipissing system were retransposed and wires were replaced in some sections to improve communication.

At other points in the various systems telephone circuits were rerouted or rearranged to provide better clearances and to give more efficient service.

DISTRIBUTION AND RURAL SYSTEMS

The work carried on by the Distribution section of the Electrical Engineering department covers the engineering for the construction of rural lines, distribution feeder lines, metering equipments, distribution systems for municipalities, etc. A tabular report of the work done during the past year may be found in Appendix III of this report.

SECTION VII

THE LABORATORIES

The work of the Department has continued to increase in volume, and the past year has been the most active in the history of the Laboratories. The reason for this activity is twofold. In the first place, there has been an increased demand upon the Laboratory by other departments for the inspection and testing of materials purchased under specification. In the second place, the number of problems in the operation of the system requiring special treatment has increased with the growth of the Commission, and the department is continually being called upon to assist in solving these problems. Other features worthy of note in the year's operation are: an increase in the number of requests received by municipalities for testing and research services, and the increase in tests of a special character for organizations outside the Commission.

A particularly interesting feature in the Laboratory's development during recent years has been the gradual formation of an inspection staff of highly trained men capable of conducting practically any kind of inspection of materials or equipment. It is believed that there are few organizations in America having such a staff and the evolution of this organization has been made possible by the adoption of a policy by the Commission of purchasing all equipment and materials under specification and of requiring inspection in all essential particulars of any undertaking. This has permitted the assembly of a staff of field inspectors and of the close co-ordination of field inspection with laboratory tests. The results of this policy are made evident continually in improved materials and equipment. The close co-operation which exists between engineering departments and the laboratory staff thus operates to the benefit of the Commission as a whole.

Every opportunity is taken to keep abreast with the latest developments in testing and inspection methods and in the application of new scientific discoveries to the problems of operation. To this end, contacts with research and standardizing organizations are being maintained, and the department is represented on committees of the Canadian Engineering Standards Association, National Research Council of Canada, International Electrotechnical Commission, American Institute of Electrical Engineers, American Society for Testing Materials, American Concrete Institute, Engineering Institute of Canada, and the National Research Council of the United States.

During the course of the year a movie film, illustrating the work of the Laboratory, was prepared and adapted for projection in 16 millimeter size. This film has been exhibited several times to illustrate lectures by various members of the Commission.

High Tension and General Electrical Laboratory

The activities of this section continue to follow along the lines indicated in previous reports, some branches of the work, however, showing a substantial increase in volume.

Shop Inspection

Routine shop inspection of transformers, rotating machinery, switching equipment, etc., together with the work of checking up schedules of production, has occupied almost the entire time of four members of the staff. The effect of such testing and inspection is shown in the quality of the equipment obtained also in avoidance of delays due to equipment not arriving on scheduled dates. Shop inspection of insulators is carried on throughout their course of manufacture and as the Commission spends a large amount of money each year in insulators and the service security requirements are high, this work has been shown to be well worth while.

Lightning Investigation

Apparatus for the detecting and measuring of lightning and similar electrical surges has been installed at various critical positions on lines and apparatus. Coupled with the studies of lightning has been the measurement of ground resistance which has been shown to be an important factor. Variations in ground resistance is also important in determining impedance-distance characteristics of lines for relay settings, and progress has been made in obtaining data along this line.

Radio Interference

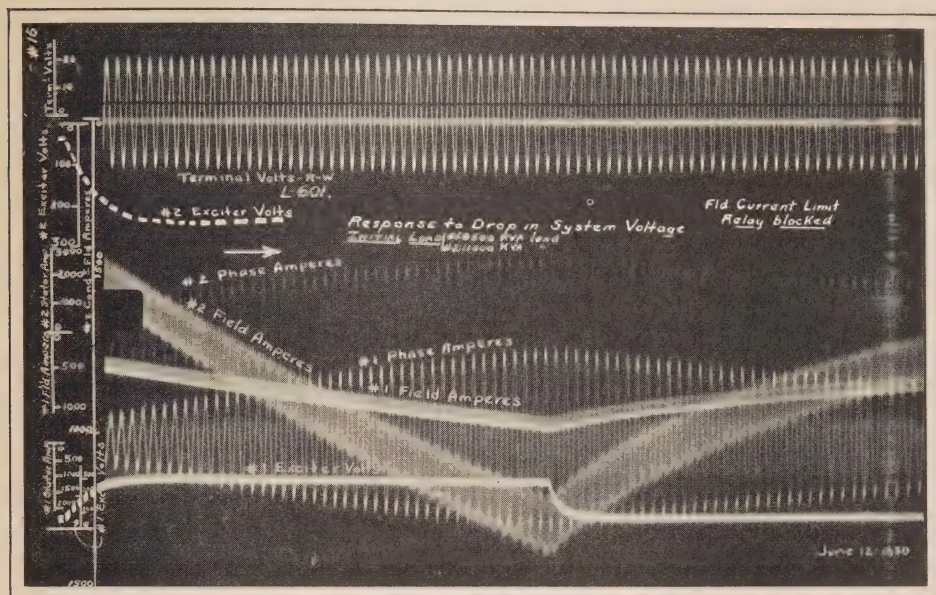
Close co-operation is maintained with the Radio Interference Branch of the Department of Marine and Fisheries technically, and several local problems, as well as some general investigations, have been studied during the year.

Routine Testing

The routine testing of rubber gloves and transformer oil has increased in volume. About 1,200 pairs of rubber gloves and 5,000 samples of oil were tested during the year, in addition to many other pieces of apparatus of various types.

Meter and Standards Laboratory

Maintenance of Laboratory standard meters for electrical measurements has been thorough, and during the year over one hundred calibrations were made on portable standard meters and others, chiefly by members of the Operating department for the use of the Commission. Precision methods of measurement and instruments available for such measurements have been used in special investigations carried out at various times.



OSCILLOGRAPH RECORD OF ELECTRICAL QUANTITIES DURING TRANSIENT CONDITIONS
As recorded on Automatic Oscillograph at Leaside Station Electrical Laboratory

Meter Repairs

During the past year, more than 1,300 watt-hour meters have been repaired or rebuilt, and in addition, repairs have been made to demand meters, rotating standards, meggers, bridges, voltmeters, ammeters, wattmeters and time switches.

The Instrument repair shop has also been active throughout the year supplementing the work of all sections of the Laboratories.

Illumination Laboratory

The main part of the work of this department continues from year to year with very little change except in details.

Lamp Testing

The inspection and testing of lamps by our resident inspector at the factory, the selection of samples for life test and the life testing of the sample groups at the Laboratory have been carried on as in previous years.

The Commission's lamp business has been steadily increasing in volume year after year with a corresponding increase in the number of lamps examined and tested.

It is gratifying to report that there has also been an upward trend in the quality of the lamps. As a result of this, a general increase in the efficiencies of all types of lamps has been made.

In the range of sizes covered by the inside-frosted lamps the demand for clear bulb lamps has decreased to such an extent as to indicate that they will

soon be classed as "special." No advantage is to be gained in ordering clear bulb lamps in preference to those with inside-frosted (type A) bulbs while there are important advantages in the use of the latter.

Commercial Tests of Lighting Equipment

The types of lighting equipment tested during the year include show window reflectors, street lighting glassware and a new type of unit developed for lighting canals and waterways. In the tests of the last named some unexpected information was obtained which had an important influence on the design of the unit.

Many types and brands of lighting glassware are on the market regarding which no information is available as to their optical characteristics and efficiency. A cheaper brand of unit may be, and often is, so inefficient that, based upon the percentage of light delivered, the higher priced brands are the cheapest to use. Some users of lighting equipment have tests made and base their selections upon the results obtained.

Lighting Service

Increased use is being made of the lighting service offered to all users of power on the Hydro-Electric Systems. This service includes studies, including surveys of illumination intensities of existing lighting systems with recommendations for correcting unsatisfactory conditions; planning the lighting of new buildings and outdoor areas, and assistance in solving unusual lighting problems of various kinds.

Owing to the great variety in the nature of the work done by this section of the Laboratory, the completeness of equipment, and the entire freedom from commercial bias, the Hydro municipalities have at their disposal exceptional facilities upon which they may draw for the benefit of their own organizations or for their customers.

A considerably greater number of requests for service has been received during the past year than during any previous year. The Hydro municipalities are invited to make a more general use of this service.

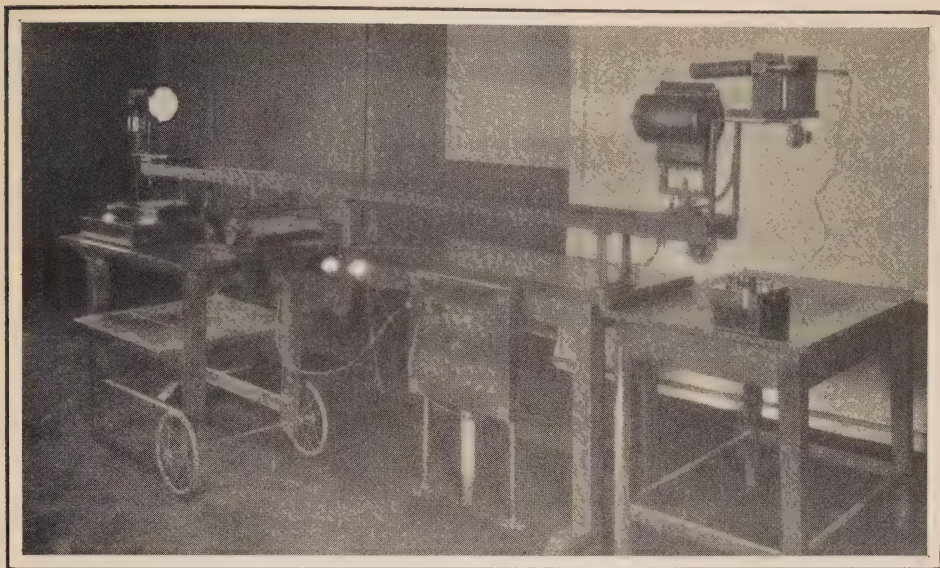
Automobile Lighting

Although there have been no tests of automobile headlights during the year, a considerable number of tests have been made closely related to the headlights of automobiles.

An apparatus designed to make possible the correct adjustment of automobile headlights by a garage attendant in the daytime was submitted for test. Similar kinds of apparatus had been tested previously but this last was the only one found to fulfil all the requirements for approval.

During the past year an Act was passed by the Legislature of Ontario requiring all motor trucks and trailers to carry on the rear end an approved reflecting device in addition to a tail light, so that in the event of a failure of the tail light to function the headlight beams of an overtaking motor vehicle would illuminate the reflecting device and thus warn the driver of the presence of the truck ahead.

The Laboratory was requested to conduct tests and to formulate specifications to which reflectors must comply before approval could be granted by the Department of Public Highways of Ontario.



TEST OF REFLECTING SIGNALS FOR THE REAR OF MOTOR VEHICLES
Illumination Laboratory

The test involves the measurement of reflected light under specified conditions.

A large number of reflecting devices have been tested, some of which have been approved by the Department of Public Highways.

Engineering Materials Laboratory

In common with the other sections of the Laboratory, this section has been very busy during the past year, and its principal achievement has been the volume of work handled with only moderate increases in the staff, rather than the accomplishment of any noteworthy investigations. This large volume of routine testing and inspection has made it necessary to curtail special research work as far as possible, and as a consequence no new researches have been undertaken, but the work already in hand has been continued as far as possible.

Inspection of Concrete Structures

The examination of concrete structures in service has been one of the investigations that has been actively continued, some fifty additional structures having been inspected during the year. A number of these were along the Gulf of Mexico and in the Lower Mississippi Valley, and others in the Central Mississippi Valley and along the Atlantic coast. It was found that concrete that did not have to resist the action of frost could be of very inferior quality, and yet give satisfactory service. However, along the sea coast, concrete which was reinforced had to be exceptionally good or spalling would occur due to rusting of the embedded steel.

The important conclusion from these investigations is that frost is the principal enemy of concrete in this climate. Knowing this future studies will be directed toward finding better methods of combating the effects of frost action.

A direct outgrowth of the foregoing studies has been the immediate application of the information and experience obtained in the maintenance of the Commission's structures. Engineers from the laboratory have advised on and kept in very close touch with all phases of the repair work which has been carried out during the past year at Frankford and Wasdells Falls powerhouses, the Eugenia dam, and the cooling pond at Niagara Falls. As a part of the same work, all of the concrete structures of the Commission are being kept under close observation, and recommendations for their repair are made when conditions are discovered that make such action advisable.

Special Investigations

During the year a number of special investigations and reports was made at the request of different departments, such as on the waterproofing of interior brick walls in powerhouses; the protection of brick work during construction in freezing weather; a comparison of the efficiency and operation of small portable concrete mixers; safe loads that can be applied to different types of steel insulator pins; the tensile strength of various brands of manilla rope; and the effect of different loadings on the standard wooden crossarms used on wood poles for high tension distribution.

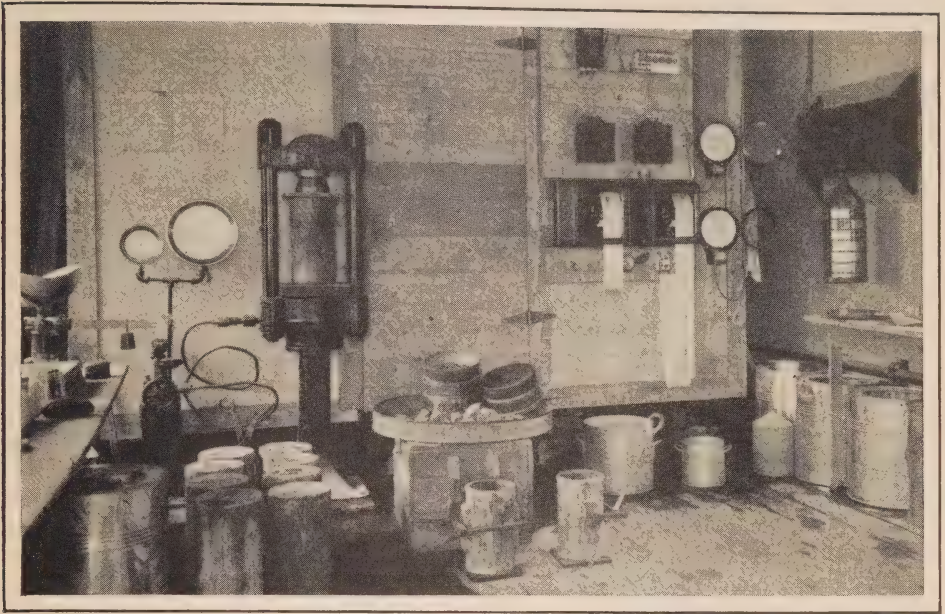
Special Tests

The Commission's unique position as a pioneer in the successful application of scientific methods in the control of concrete during construction is being increasingly recognized. Frequent requests from other organizations are being received by the Laboratory to carry out the basic tests necessary with any group of materials in order to determine the best mixture which will give concrete of a desired quality. Seven such groups of tests have been made during the year, besides those for the work at Chats Falls and Niagara Falls.

Inspection of Materials

The work involved in the inspection of materials has increased greatly during the past year. The increase has been in volume rather than in variety and has not required any reorganization, but has necessitated an enlargement of the staff. To meet this situation, care has been taken to select men who are skilled in some particular line, and our organization is now unique insofar as inspection work involved in power development and distribution is concerned.

Most of the materials and equipment used by the Commission are now inspected fully, or in part, to see that they conform to the requirements of the service they have to meet. The cost of such work is usually comparatively small, and the practice has been found profitable, because in most cases it greatly reduces construction costs, eliminates delays that would otherwise be occasioned, and increases operating efficiency through the rejection of faulty materials and improper workmanship. Such work includes bolts which may have defective threads, copper wire of varying degrees of hardness, galvanized steel wire of different grades, and different thickness of coating, aluminum conductors, line hardware, transmission towers, structural steel and reinforcing steel. In addition to these materials, which are more or less standard, there are special materials and equipment such as turbines and generators which involve very complete inspection and testing of heavy castings and forgings as well as careful shop inspection to see that the proper fits and alignments are obtained.



FIELD LABORATORY AT CHATS FALLS FOR CONCRETE TESTING

Engineering Materials Laboratory

The value and experience of this department has been recognized by other power companies, who have made use of its facilities and personnel. The Laboratory has made special tests for them, and the staff has been used in a consulting capacity, and it has also been requested to inspect special equipment. Such work has been of value to the other companies and has given the Laboratory a wider experience.

Chemical Laboratory

The routine work of this section has increased greatly during the past year, a large part of the time of the staff being taken up with tests on hardware, paints, metals, oils, sand, stone, and other materials.

General

An interesting development of the past year has been the large increase in the number of requests for information from the different municipalities served by the Commission. These requests are principally for advice as to the protection and maintenance of plant and equipment. Such problems as the proper paint to use to meet unusual service conditions and the cause and remedy for the corrosion of piping systems are typical of the problems which the Laboratory has assisted the municipalities in solving.

Special Tests and Investigations

In addition to the routine work, a large number of special tests are made to solve specific problems met with in the operation and construction of the Commission's properties. Some of those carried out in the past year are:

An investigation of the protective properties of the zinc coatings used in the different standard brands of galvanized sheets with comparative tests on the steel or iron forming the sheet before it was galvanized.

Comparative chemical tests on portland cement as received from time to time, and from different mills.

Tests to determine the behaviour of the more common brands of emulsified asphalt with respect to their resistance to sunlight and their behaviour in cold weather.

Development of a suitable tree wound dressing.

A study of the commercial methods of reconditioning used transformer oil.

Research into the nature of the gases formed during the operation of oil circuit breakers, and the effect the oil would have on the character, amount, and nature of the gases formed.

A study of the failure of telephone cables by fatigue cracks.

Investigation of the cause of corrosion of lead cable in fibre conduits.

Tests to determine the possibility of using old transformer oil as fuel in commercial oil burners.

Earth Dams

When the construction of the hydraulic earth-filled dam for the Alexander Power development was first decided upon, the Laboratories were asked to look into the question of determining the suitability and character of the clay that would form the puddle core of the dam. Methods for determining the approximate fineness of the clay were devised, suitable for field exploration, and during the construction this year, accurate and complete analyses have been made of samples of the puddle core being placed. This is probably the first time that this class of work has been done in Canada.

Tests on River Water

The testing of weekly samples of water from different rivers of Ontario upon which the Commission operates hydro-electric plants, was continued during the year, and now data covering a complete year has been obtained from each stream. The information is being analyzed, and it is hoped that from this it will be possible to determine, with some accuracy, the tendency of these waters to corrode concrete. The Dominion Government has shown some interest in the data being obtained from these tests, and the information is being placed at its disposal.

Salt Spray Test

During the year a salt spray machine has been added to the equipment of the section. This machine is used for making comparative tests on metallic protective coatings, such as galvanizing, tinning, cadmium plating, etc., and already valuable information has been obtained through its use.

Photographic Branch

The increased activity of the Commission has been reflected in the volume of work that this section has been called upon to handle with the result that an additional photographer has had to be added to the staff.

The character of the work does not vary much from year to year, and, as in the past, has been principally made up of the printing and development of photographs taken by different members of the staff in connection with their various activities, the preparation of special photographs to illustrate reports, technical articles, and other documents, copying, lantern slides, etc. Progress pictures have been taken regularly of the construction work at the Leaside Transformer station, Queenston powerhouse, and the concreting of the Ontario Power Company's No. 3 Conduit. Photographs have also been received and prepared of the progress of the Alexander Power development.

A survey of the existing photographs in the Commission's file showed that no up-to-date pictures existed of many of the older structures on the different systems, and during the year this has been rectified. Pictures have been systematically taken of all of the structures on the Niagara system, Muskoka system, Thunder Bay system, and Nipissing system, and Eastern Ontario system.

A large projection printer with reducing attachment has been added to the equipment of the department, in order more economically to handle the enlargements that are being required, and also to facilitate the making of standard-sized prints from the many different sizes of negatives that result from members of the Commission's staff using their own cameras.

Blueprinting Department

The Blueprinting department likewise has been very busy during the past year, having handled over 95 per cent of the blueprints, ozalids and other classes of work required by the Commission, totalling approximately 37,000 square yards of finished prints.

Approvals Laboratory

There has been a general increase in the work of this section, as may be noticed from the following summary of approval applications received from November 1, 1929, to October 31, 1930. Of 655 applications, 181 applied to heaters, 176 to motor-operated devices, 113 to wiring devices, sockets and switches, 103 to radio devices and musical instruments, and 82 to lighting devices including portable electric lamps. This is an increase of 38 per cent over the previous year. It may also be noted that this is an increase of more than 100 per cent during the past three years. There has been a slight falling off in the number of applications received for listing of devices approved by Underwriters Laboratories, the total number of applications received during the past year being 168. This may be partly due to the fact that Canadian manufacturers have been able to replace the imported devices with those manufactured in Canada. Another reason for this decrease is the stiffening up of

requirements by this Testing Laboratory on certain lines of electrical equipment which have been approved by Underwriters' Laboratories, but which we have discovered have fallen somewhat below the standards as required by the Commission. Two hundred and twenty-five final approval reports have been written during the year, and 329 white card summaries printed. Green card summaries covering devices listed as approved by Underwriters' Laboratories have been printed to the number of 199. Quite a percentage of this latter group has been printed merely as a change of record or due to a revision in the filing.

A further indication of the expansion of the Laboratory work may be seen in the fact that there are—as of October 31—322 approval reports in various stages of completion. One year ago this number was 273, an increase of about 17 per cent. With five testing engineers this means an average of 64 active jobs per engineer. In this connection, it is proposed to install a progress record system so that all new applications will be handled strictly in turn, the submitter being given an estimated date for the completion of the preliminary report.

Factory inspection work has increased, particularly that having to do with label service on portable electric lamps, for which a more frequent service is necessary. At the present time, there are more than 40 subscribers to the portable lamp label service in the United States, 24 of them being in the New York district. Our schedule, at the present time, includes quarterly inspection of each of these label service users in the United States, and more frequent inspection to those points which are more easily reached by the inspector from the Toronto office. The number of labels sold during the year has been considerably less than that during the previous year. This is no doubt due to the general business depression.

The inspection of electrical equipment offered for sale throughout the Province has received more attention during this past year than formerly and special steps have been taken to rigidly enforce the regulations. The engineer entrusted with this work has visited the Electrical Inspection departments in most of the cities and towns in the southern part of the Province.

Draft specifications for radio-operated appliances and for electric signs have been prepared, the former one being sent to the Canadian Engineering Standards Association to be issued as the first draft of the specifications under that Association. This work of preparing these draft specifications requires much care and thought on the part of the engineers who are acquainted with the details of the apparatus.

ELECTRICAL INSPECTION DIVISION

In spite of the general business depression which has prevailed throughout the Province, the Electrical Inspection department has concluded a very successful year. The volume of business was second only to the best year in the history of the Department, namely, 1929. This condition is noteworthy in view of the fact that the number of building contracts let between November 1, 1929, and October 31, 1930, was ten per cent less than in the previous fiscal period. The value of the building contracts let was also \$55,473,000 or 33 per cent less than in 1929.

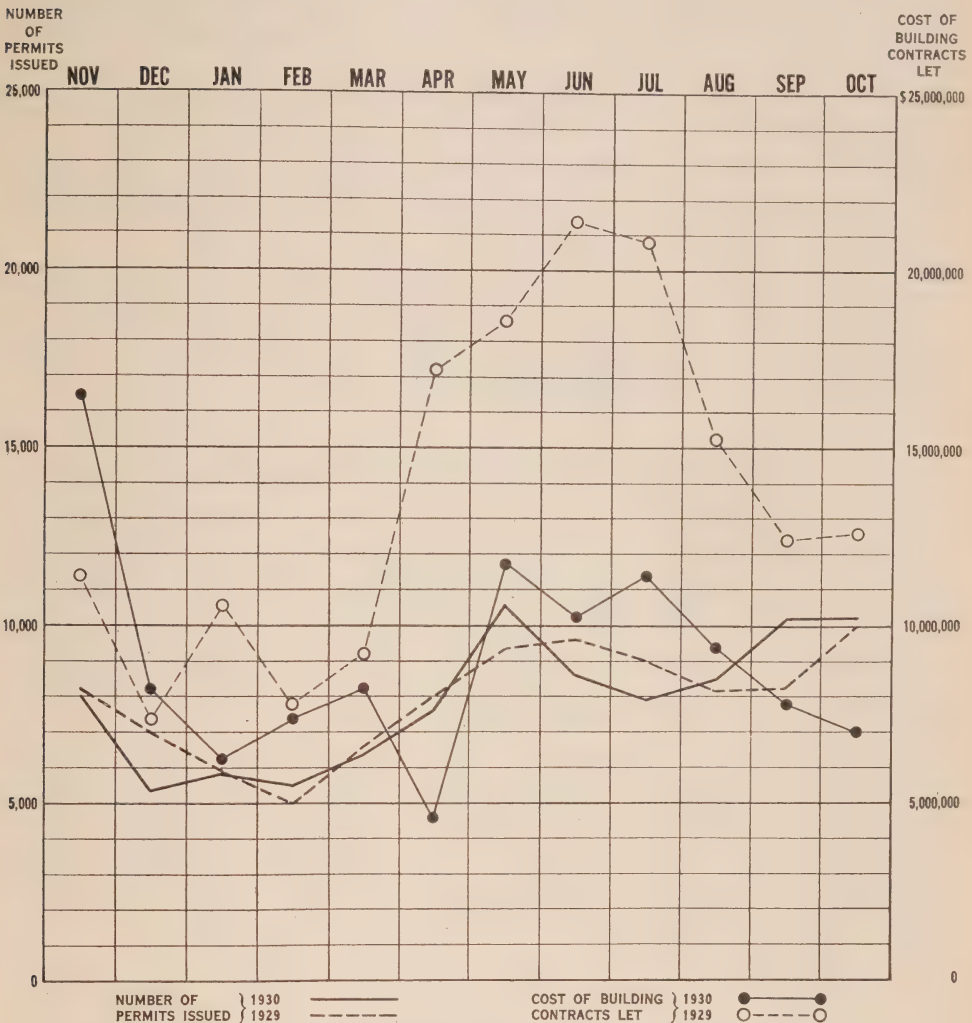


CHART ILLUSTRATING OPERATIONS OF THE ELECTRICAL INSPECTION DEPARTMENT

A graph illustrating the amount of money expended in 1929 and 1930 on the building construction from which a great part of the work of the Department is derived is shown. This graph also shows the number of permits issued by the Department in 1929 and 1930 in comparison with the cost of building construction for the same years.

The decrease in urban and suburban construction was offset to some extent by the greatly increased activities in the rural sections of the Province.

A brief summary of the year's operations shows that 95,229 permits were issued, a decrease of 647, or less than one per cent from 1929. The total number of inspections made was 186,891, this being a decrease of 2,799 or 1.5 per cent.

Automobile mileage in 1930 amounted to 431,940 miles as compared with 405,873 in 1929; an increase of 26,067 miles or 6 per cent. This additional mileage was due to the greater number of rural inspections made in 1930 than in 1929.

Nine fires were reported as having been caused by defective electric wiring or apparatus.

In several instances of infractions of the Rules and Regulations there was no alternative but to take Court proceedings with the result that in practically every instance fines were imposed.

It is with regret that we record the deaths of five persons as having been caused by electrocution. Two of these deaths were strictly accidental, but the other three were the result of carelessness and could have been avoided. In these cases, three men, electricians, were working on live apparatus which should, and could have been made dead.

Along with the regular routine of inspecting new wiring installations and equipment, the Department makes inspections of the older and more obsolete type, which from general wear and tear have come to the stage where they constitute a life and fire hazard. The wiring in 4,815 such buildings and premises was overhauled at an approximate cost of \$500,000 during the past year. Included in these figures is practically every church in the Province by reason of the fact that insurance companies give a substantial reduction in insurance rates if the electrical installation is found to comply with the requirements, and the assured can produce the certificate of approval from the Inspection Department covering the church's wiring and equipment.

In January, 1930, the second edition of the Canadian Electrical Code, Part I, was adopted by the Commission as the ninth edition of its Rules and Regulations and became effective throughout the Province on June 1, 1930. This edition supersedes the eighth edition which has been completely revised and re-arranged, in order to take advantage of the experience gained and keep in line with recent developments in the field.

SECTION VIII

ELECTRIC RAILWAYS

ESSEX DISTRICT RAILWAYS

Way and Structures

Track construction, which was commenced in 1929 on Sandwich street in the town of Sandwich and on London street in the city of Windsor, was completed during the year.

The double track construction on Sandwich street in Sandwich, between Rosedale avenue and Detroit street, referred to in last year's report, was completed and was placed in operation on the 18th of December, 1929. This double track, which is the standard paved monolithic type, is located in the centre of the widened street and replaces the former open double track located on the south side of the street on private right-of-way. Tubular steel poles were also erected for the joint use of the municipality and the railway. This work was covered by agreement between the municipality and the Commission and in accordance with this agreement the municipality has purchased the private right-of-way, formerly occupied by the railway trackage, and has paid the cost of pavement on the track allowance.

On London street in Windsor the double track reconstruction programme referred to in last year's report was completed. The portion of track reconstructed this year extends from Janette street to Ouellette avenue. That portion of the work between Janette street and Victoria avenue is of the standard paved monolithic type of construction, while the remainder from Victoria avenue to Ouellette avenue consists of 100 lb. A.R.A., A. rail on oak ties and crushed stone ballast, with concrete paving base and brick pavement. The former portion was placed in operation on September 12, while the reconstruction of the latter portion was performed under traffic.

At the request of the municipalities of the city of East Windsor and Sandwich East township, the single open track on Tecumseh road, between George street and Pillette road, was moved from the north side of the road to the open track reservation in the centre of the road. This work was done in connection with the paving programme of these municipalities and at their expense.

A physical connection between the Windsor, Essex and Lake Shore Railway single track on Howard avenue and the double track of this system on Erie street in Windsor was constructed to permit of the interchange of traffic between the two systems.

At the intersection of Ottawa street and Monmouth road in Walkerville an additional curve was installed in the special work, making a complete double track Wye installation at this point.

During the year the Sandwich street highway bridge over the Canadian National Railway in Walkerville was reconstructed by the town of Walkerville. This work necessitated the reconstruction of the single street-car track which also traverses this bridge and its approaches. Also involved was the construction of a temporary track and bridge to permit of the continued operation of the Tecumseh division traffic. All bridgework was performed by the town of Walkerville and trackwork by the railway forces. Operation over the temporary facilities thus provided extended from May 27 to August 30, when operation over the new bridge was commenced. The new track is located, as formerly, on the north side of the approaches and bridge proper, the construction on the west approach and across the bridge being of the open type and on the east approach of standard monolithic type. This project is governed by Board of Railway Commissioners for Canada Order No. 42618, dated 14th May, 1929, and amending Order No. 44201, dated 17th January, 1930, the subdivision of costs being as follows:—"Canadian National Railways 55 per cent not exceeding a lump sum of \$60,000; town of Walkerville 20 per cent; city of Windsor 15 per cent and Hydro-Electric Railways 10 per cent." The amending order also provides that, in the event of 55 per cent of the total cost of the bridge being in excess of the \$60,000 apportioned to the Canadian National Railways, such excess to be borne by the town of Walkerville. Maintenance costs are subdivided on the basis of the above mentioned percentages.

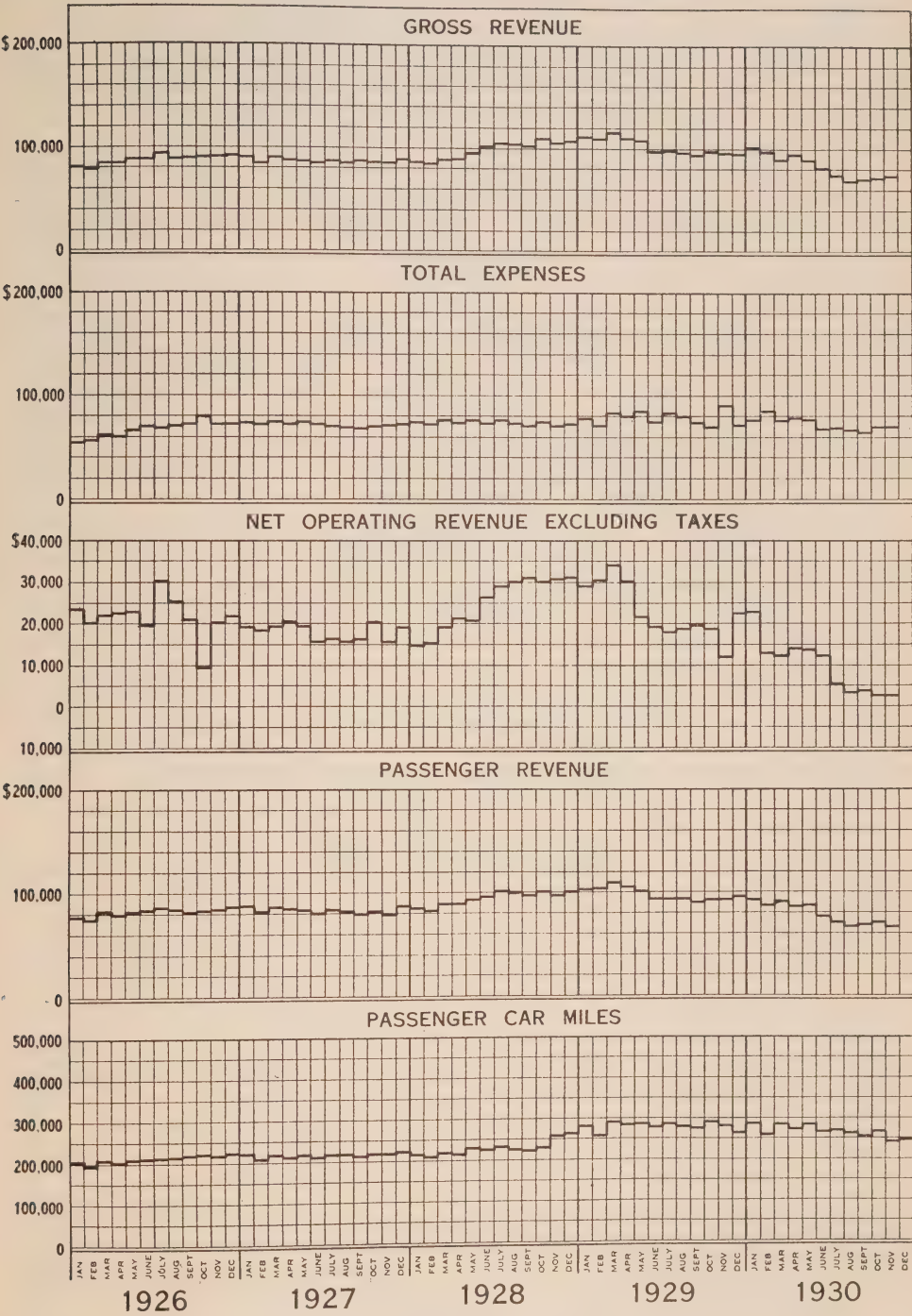
Construction of the Wyandotte street highway extension, referred to in the 1924 annual report, was commenced by the city of East Windsor in October. This extension will connect Wyandotte street in Walkerville with Ottawa street in East Windsor and involves the construction of subways under the Pere Marquette Railway in Walkerville and the Canadian National Railways in East Windsor. It is proposed to construct a double track street-car line along this extension which is approximately 4,000 feet in length. The route of the extension as finally adopted, will permit the under-crossing of the Canadian National Railway by both the new extension and the existing Drouillard road, by means of the same subway. Negotiations have been carried on throughout the year and the Board of Railway Commissioners' Orders have been issued authorizing the work in East Windsor, but to date, division of cost has only been made of the Drouillard road portion of the subway, in which portion the street railway is not interested. It is expected that similar negotiations on the part of the town of Walkerville will result in the authorization by the Board of the under-crossing of the Pere Marquette Railway and that this work can be commenced in a short time.

Operation

The gross revenue for the year 1930 amounted to \$1,027,759, as compared with \$1,241,042 in 1929, a decrease of \$213,283. The operating expenses amounted to \$876,160 as compared with \$929,689 in 1929, a decrease of \$53,529.

The net operating revenue for the year 1930 was \$151,599, as compared with a net of \$305,962 in 1929, a decrease of \$154,363. The interest and taxes for the year 1930 amounted to \$279,090, as compared with \$266,881 for the year 1929, an increase in fixed charges of \$12,209.

ESSEX DISTRICT RAILWAYS—OPERATING STATISTICS



The decline in passenger business noted in the latter part of 1929 continued throughout the year 1930. The number of revenue passengers carried during the last four months falling to the lowest point in six years.

There was also a further reduction in freight tonnage from 12,540 tons in the year 1929 to 5,748 tons in the year 1930. The shipments to the export docks ceased entirely after May, 1930, and all freight shipments on the Tecumseh division were stopped by the removal of the Ford interchange with the C.N.R., on account of the construction of a subway under the C.N.R. tracks.

The net result of the year's operations shows a deficit of \$127,491 after paying interest and taxes, but without taking care of depreciation, as compared with a surplus of \$44,471 in 1929. Passenger revenue decreased \$198,936 and freight revenue \$10,539 as compared with 1929. Gross revenue decreased \$213,283.

In conjunction with the Detroit street railway, a bus service over the Ambassador bridge was started in November, 1929, and at the start promised to do well, but due to industrial conditions in the Border Cities and in Detroit, the traffic fell off considerably towards the end of the year. The opening of the Detroit-Windsor tunnel in November, 1930, will, it is expected, reduce business to such an extent that the continued operation of this service will not be warranted. This service had total earnings amounting to \$50,678 with operating expenses of \$58,280, resulting in a deficit of \$7,602.

The W. E. & L. S. Railway will shortly operate a local service on Howard avenue and the Howard avenue bus line will be discontinued. This will effect a saving of approximately \$25,000 a year to the Essex district.

The financial statements respecting the Railway are given in Section IX of this report. The accompanying chart indicates the growth of the Railway for the past five years.

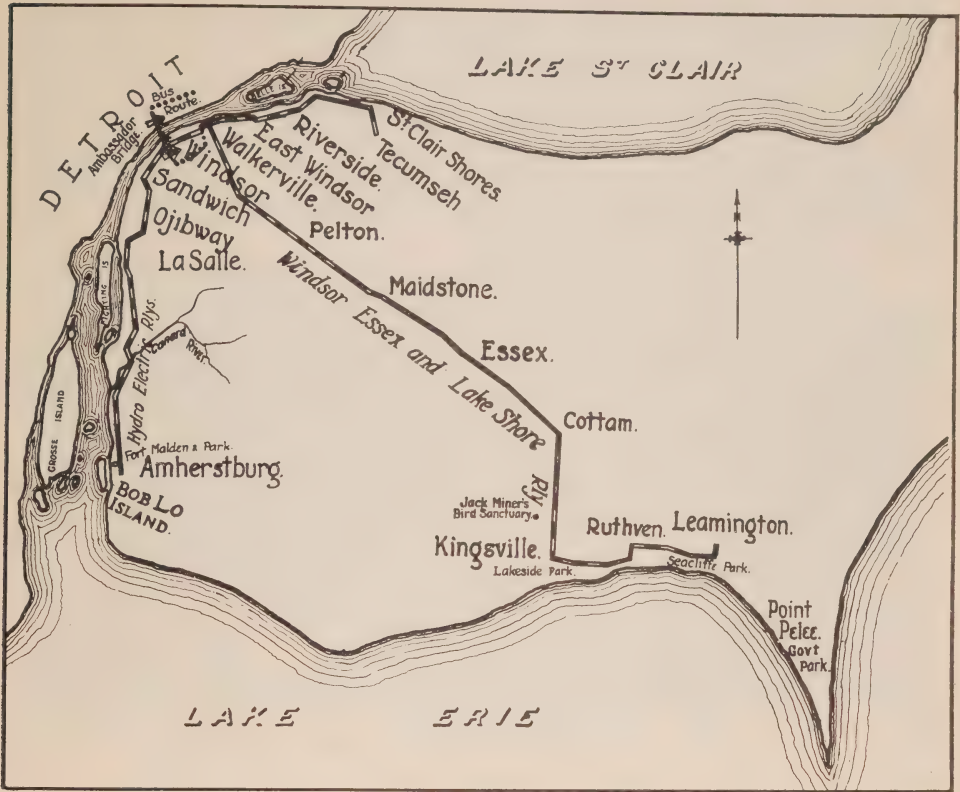
The mileage operated by the various types of cars and buses during the year is as follows: double truck, air brakes, two-man cars 146,965 car-miles; interurban cars 495,738 car-miles; single-truck safety cars 597,221 car-miles; double-truck, safety cars 1,565,517 car-miles; express cars 12,940 car-miles; buses, 449,394 bus-miles; service cars, 28,827 car-miles; total 3,296,602 car- and bus-miles.

ESSEX DISTRICT RAILWAY Operating Statistics, 1930

Route-miles:

City trolley.....	24.29
City bus.....	18.50
Amherstburg interurban.....	13.54
Tecumseh interurban.....	6.10
Total route miles.....	62.43
Passenger and freight car-miles operated.....	3,261,956
Passenger and freight car-hours operated.....	362,277
Passenger carried.....	16,592,772
Percentage of transfer passengers to revenue passengers.....	18.64
Passenger cars operated.....	66
Passenger buses operated.....	13
Passengers carried per route-mile.....	225,728
Passengers carried per car-mile.....	5.107
Passengers carried per car-hour.....	45.801
Average mileage per car operated.....	42,357
Average mileage per bus operated.....	34,568
Average passengers per car operated.....	236,486
Average passengers per bus operated.....	75,741
Freight tonnage carried.....	5,748

Accidents 656 of which 514 were automobile accidents.
Accidents per 100,000 car-miles 19.26.



WINDSOR, ESSEX & LAKE SHORE RAILWAY

WINDSOR, ESSEX & LAKE SHORE RAILWAY

On September 8, 1929, the operation of the Windsor, Essex and Lake Shore Rapid Railway was taken over by the Commission under agreement with the Windsor, Essex and Lake Shore Electric Railway Association, the latter body, representing a number of municipalities traversed by the railway, having purchased the line from the original owners, the Windsor, Essex and Lake Shore Rapid Railway Company, at a cost of \$296,000.

This railway consists of 36.12 miles of standard gauge single-track extending from the intersection of Pitt street and Ouellette avenue in downtown Windsor to Leamington, with numerous industrial sidings along the route. In Windsor, Essex, Cottam, Kingsville and Leamington the track is situated in the centre of the street, while on the balance of the line it is constructed on a narrow strip of private right-of-way of varying widths, adjacent to the highway.

Way and Structures

Rehabilitation of the entire system has proceeded throughout the year and is now practically completed.

Approximately 55,000 cedar ties and 7,000 pairs of angle bars have been installed. The open track throughout has been lifted and lined. Special work

has been repaired or replaced, culverts have been repaired and the entire line has been bonded.

The single paved track through the town of Essex has been reconstructed, for a distance of approximately 4,000 feet. This work was done to conform with the municipality's street widening scheme. The work involved the installation of new 100 lb. A.R.A., A. rail throughout, on the existing oak ties and concrete foundation, and the laying of new paving base and brick pavement. All rail joints are thermit welded.

A siding has been constructed on Howard avenue, Windsor, near Tecumseh road to provide a passing point for a local service to be inaugurated on Howard avenue. The siding is of paved construction, with 80 lb. A.S.C.E. rail on oak ties and stone ballast, concrete paving base and brick pavement. The equilateral turnouts at each end provide for the accommodation of both steam and electric railway equipment.

The widening of Arthur street by the city of Windsor occasioned the reconstruction of 700 feet of paved single track on the new centre line of the street. Construction is of 80 lb. A.S.C.E. rail on cedar ties with tie plates, crushed stone, ballast, concrete paving, base and brick pavement, rail joints being thermit welded. The municipality contributed \$9,000 towards the cost of this work.

A new spur has been constructed to serve the new freight shed in Leamington.

A new spur, approximately half-a-mile in length, has been constructed from the main line near Leamington to Seacliff park. This spur is located on a 66-foot, private right-of-way and is of the open type of construction with used 80 lb. A.S.C.E. rail, on cedar ties and stone ballast.

Additional freight shed accommodation has been constructed both at Kingsville and at Leamington and arrangements made with the local Fruit Growers' Associations whereby the latter will pay the carrying charges on the cost of construction.

The overhead system was reconstructed throughout the entire length of the line. Poles belonging to the Power department of the Commission were utilized for a distance of approximately ten miles north of Essex and three miles north of Kingsville. On the remainder of the line, pole replacements were made where necessary. The catenary construction consists of 7/16 inch steel strand messenger with 4/0 grooved copper contact wire supported on existing mast arms. The new feeder consists of a 636,000 c.m. steel reinforced aluminum cable extending from Erie street in Windsor to Ruthven, and a 954,000 c.m. cable from Ruthven to Leamington.

The telephone system has been rehabilitated throughout, iron wire, where it existed, being replaced by copper.

Equipment

Four new motor car and one trail car bodies were secured from the Ottawa Car Manufacturing Company. These car bodies are all steel, of modern stream line design with extra large windows and are the first cars of this type to be used in Canada. Particular attention has been paid to appearance, finish and comfort. Special spring construction is provided in the seats and the trail car is equipped as a parlour car with lounge type settees in each of the two end



WINDSOR, ESSEX & LAKE SHORE RAILWAY AT PELTON

compartments. Trucks purchased from the National Steel Car Company of Hamilton are also of a modern design to provide easy riding qualities. The electric motive equipment consists of four used 100 h.p. Westinghouse motors geared for somewhat over 65 m.p.h. on level track. Multiple unit control is used with automatic draw bars so that two or more cars can be operated in train.

In providing for the two locomotives necessary it was found possible to obtain five used modern trucks and motors in first-class condition at very attractive prices. One set of trucks was installed under a used locomotive body secured from the Canadian National Electric Railway and the other under one of the express cars taken over with the Railway and remodelled.

Power

The original programme contemplated the installation of three manually operated substations located at Maidstone, Cottam and Ruthven. Subsequently it was found possible to rearrange the rehabilitation programme to permit the purchase and installation of automatic equipment, which will result in more economical operation. Each station consists of one 500 kw. rotary converter with high-tension transformers and automatic switching equipment.

Operation

In considering the results of the first year of operation of the W. E. & L. S. Railway, consideration should be given to the fact that it was a period of rehabilitation in its entirety. Between September 8, 1929 and August 15, 1930, many conditions existed which prevented securing an increase of business.



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Passenger car



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of observation car



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of passenger car



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of observation car

Statement of Revenue and Operating Expenses

	Year ending Dec. 31, 1926	Nov. 1, 1929 to Oct. 31, 1930	Sept. 8, 1929 to Oct. 31, 1930
Gross revenue.	\$245,448	\$161,455.41	\$185,724.01
Expenses			
Ways and structures.	\$29,763	\$27,928.70	\$32,524.93
Equipment.	34,837	25,752.47	31,226.20
Power.	58,541	45,320.37	53,526.32
Transportation.	60,841	54,284.86	61,886.38
General miscellaneous.	51,383	41,122.66	47,942.80
Total expenses.	\$235,365	\$194,409.06	\$227,106.63

During the major portion of the year passengers had to transfer from the cars at the Windsor end into a bus and then again transfer from the bus to the cars operating with A.C. power. Furthermore the restricted facilities that could be offered for the handling of freight and express also prevented any material increase being shown, in fact, the railway was fortunate to be able to hold what business there was left.

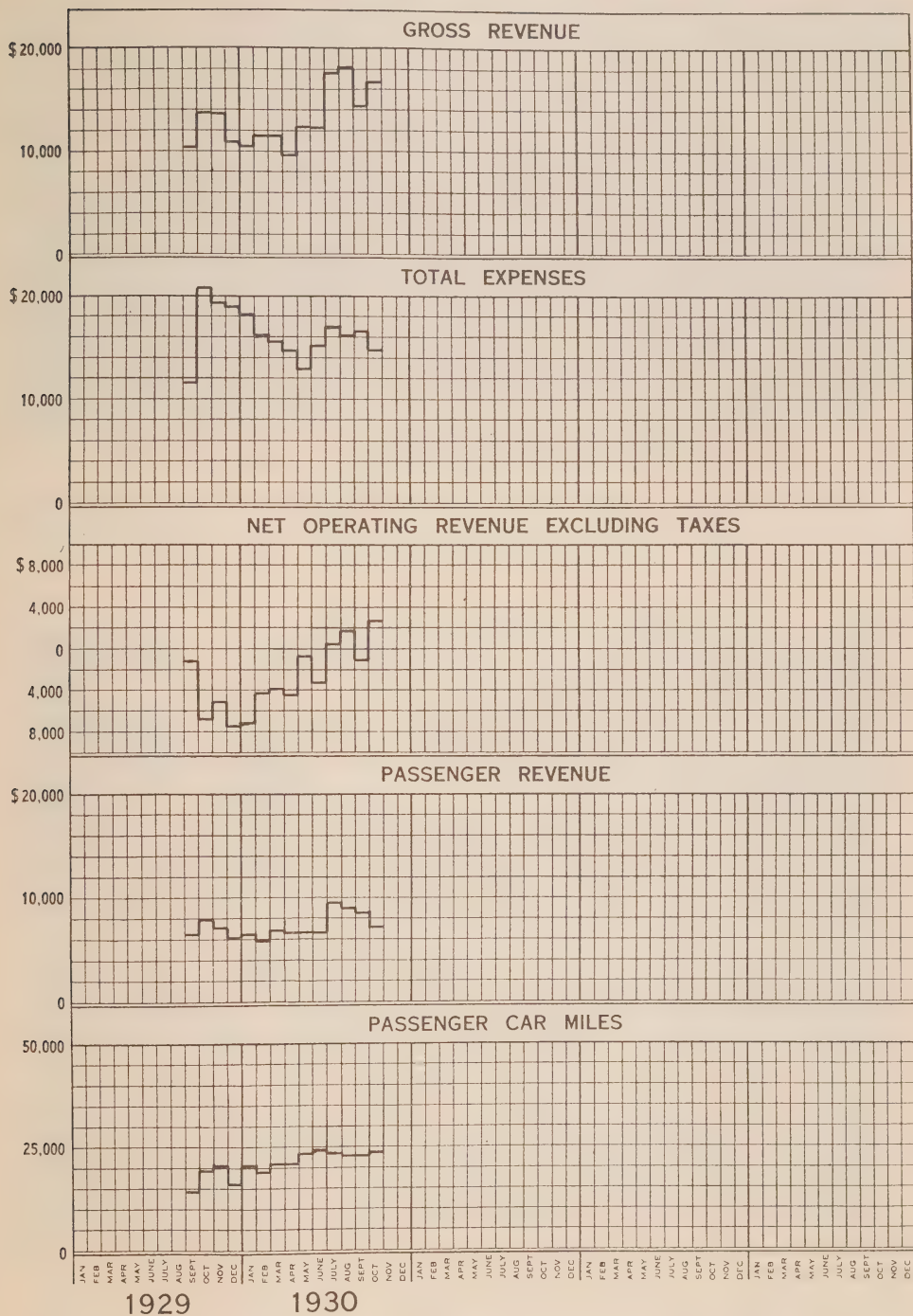
It was not possible to cater to the summer traffic or excursion business on account of lack of facilities. The equipment was also of such a nature that it was not conducive to attracting business. The cost of operation was considerably increased on account of having to hold the old equipment and power stations together until the 600-volt power was available.

During the year the entire purchase cost of the buses was wiped off and charged to operation, amounting to practically \$4,000. The rental for the temporary transformers from the Hydro-Electric Power Commission, amounting to \$2,600 was also charged against operation, as was also the changing of the intake pipes into the Kingsville power station, which accounted for another \$3,000.

The industrial depression brought about a condition which has retarded and will continue to retard to some extent the growth of revenue. All of the savings that can be effected in the operating costs, do not up to the present time show in the report for the fiscal year ending October 31, 1930. Many of them were placed in effect after that date and there are a few more changes yet which will tend further to reduce operating costs. The estimate for the cost of operation was approximately \$175,000. It is believed that it will be possible to reach this point at an early date. The passenger revenue until October 31 remained practically stationery. This should increase during the ensuing year. The revenue from freight operation showed decided increases towards the latter part of the year and the outlook seems better for the coming year, notwithstanding the industrial depression. For instance, the Heinz Company at Leamington has not shipped any of its product for export. The canning factories at Kingsville and Essex have shipped only one car in the last six months. These conditions are the result of the unsettled trade conditions.

Arrangements were completed with the Canadian National Express whereby the rate paid to the W. E. & L. S. Ry. was increased 100 per cent which will mean approximately \$6,000 to \$8,000 a year. In December the local passenger

WINDSOR, ESSEX AND LAKE SHORE RAILWAY OPERATING STATISTICS



business on Howard avenue will be transferred to the W. E. & L. S., this traffic at present being handled by buses operated by the S. W. & A. The cost of this operation, with 15-minute service, will be in the neighborhood of \$2,600 to \$2,700 a month and the revenue about \$3,100. This revenue a year ago ran up as high as \$6,500 a month, the total revenue for the year 1929 being approximately \$64,000. The total operating cost for the year should be approximately \$32,000, so that even during the present depression a substantial profit should be earned which will be greatly increased with a return to normal conditions. This amount of business can be handled on the present service without any difficulty.

As will be seen by the charts, the road when taken over was not paying its operating expenses by approximately \$7,000 a month. This has been changed, so that the earnings for July, August, September and October show a total surplus of operating expenses of approximately \$5,200. There will be two or three of the winter months, December, January, February and March, and possibly April, that will probably fail to produce sufficient revenue to pay the operating expenses, as these are always the light months in the year, and at present are affected seriously by the prevailing industrial depression, but with any return towards normal conditions, the balance of the year should offset these poorer months and provide something towards the capital charges.

While the revenues at the present time are not as great as were anticipated on account of conditions, it is believed, after a careful study, that the Railway will be able to produce sufficient revenue to take care of its requirements.

GUELPH DISTRICT RAILWAYS

Way and Structures

The Suffolk route, referred to in the 1929 report, consisting of approximately one mile of single track, has been abandoned and the car service replaced by buses which commenced operation on August 14.

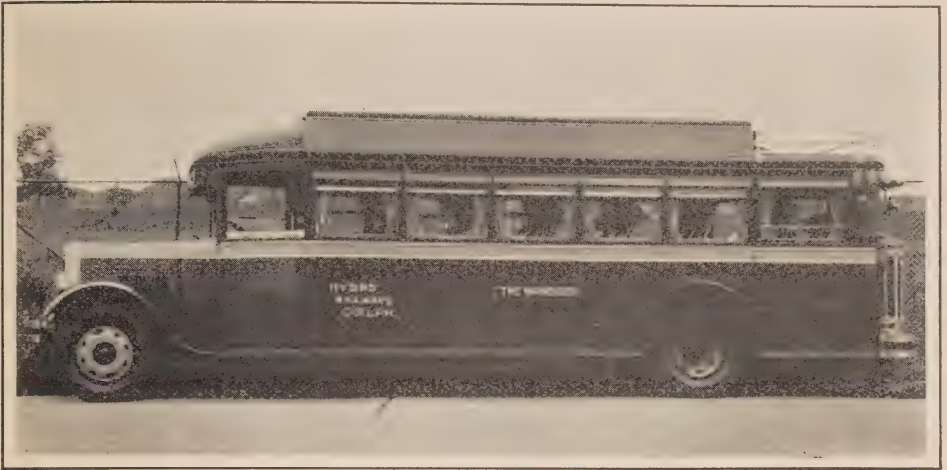
A new spur track one quarter of a mile in length with passing siding has been constructed on the grounds of the Ontario Agricultural College, to serve the new heating plant installed at the college. All freight traffic to and from the college will be routed over this track which was built at the expense of the Provincial Department of Public Works. Construction is of the open type with 80 lb. A.S.C.E. relay rail on cedar ties and stone ballast.

The track on the system has been maintained to a satisfactory standard and the overhead system has been overhauled throughout.

Equipment

The abandonment of the Suffolk car route released one passenger car from service and this car has been transferred to Windsor for service on the Essex District Railways.

Three new buses were purchased. Two of these are 25 passenger city-type vehicles while the third is a 29-passenger de luxe bus for chartered business. Of the two smaller buses, one is used to replace the street car service on the Suffolk route and the other to supplement both the city services and the chartered bus service inaugurated with the purchase of the de luxe bus.



GUELPH DISTRICT RAILWAYS—INTERURBAN COACH
Parlor coach seating 29 passengers



GUELPH DISTRICT RAILWAYS—CITY BUS

The chasses of the smaller buses were purchased from the General Motors Products Limited and the bodies built by the Commercial Motors Bodies and Carriages Company of Guelph, while the larger bus was furnished entirely by the General Motors Products Limited.

Operation

The operating revenue for the Guelph District Railways for 1930 was \$86,278 as compared with \$88,145 in 1929. The total operating expenses for the year 1930 were \$81,091 as compared with \$80,132 in 1929. Taxes for the year 1930 amounted to \$515 as compared with \$1,348 in 1929. The net operating revenue for the year 1930 was \$5,187 as compared with \$8,014 in 1929. The interest and debenture payments were \$26,900 as compared with \$26,215 in 1929. The renewal set aside was \$10,701 as compared with \$10,252 in 1929. The deficit for the year 1930 amounted to \$32,929, as compared with \$29,802 in 1929.

Included in the above deficit is \$7,307 which has been set aside each year for amortizing the original value of the railway line previous to the transfer of this line to the Hydro-Electric Power Commission; and also an interest charge of \$4,393 and a renewal account of \$10,701.

The freight business for the year 1930 increased slightly over that for the year 1929, partly due to building operations at the Ontario Agricultural College, but the number of passengers carried was smaller due to the reduced industrial activity. Earnings from special bus trips amounted to \$1,000 in the four months the new buses were in operation.

GUELPH DISTRICT RAILWAYS

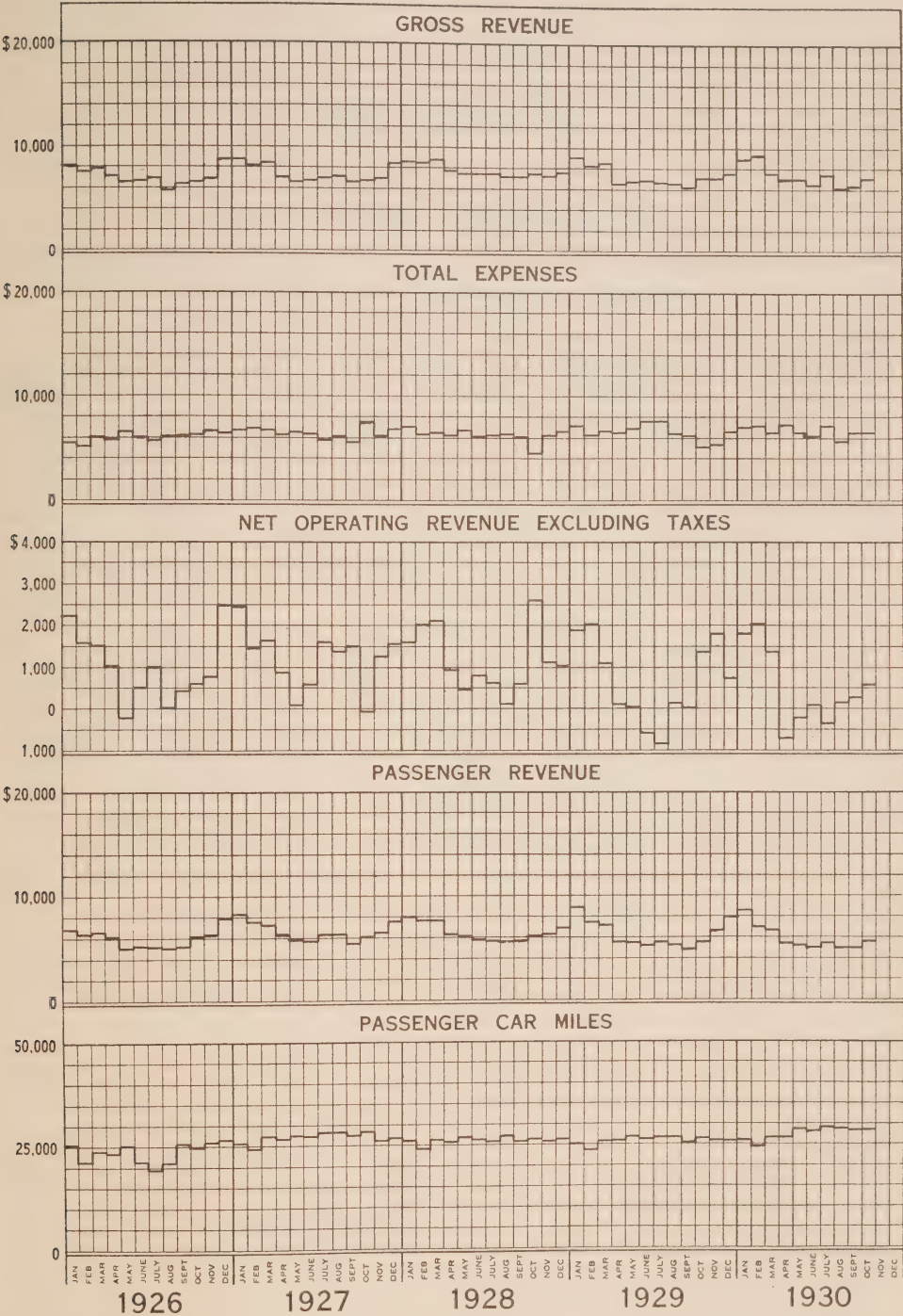
Operating Statistics, 1930

Route-miles:	
Trolley.....	6.41
Bus.....	2.65
Total route-miles.....	9.06
Track-miles trolley.....	8.50
Passenger cars operated.....	8
Buses operated.....	4
Passenger car-miles operated.....	267,057
Bus-miles operated.....	51,308
Freight locomotive-miles.....	9,780
Passenger car-hours operated.....	33,042
Bus-hours operated.....	7,913
Revenue pasengers carried.....	1,328,781
Transfer passengers carried.....	268,076
Free passengers carried.....	2,049
Total passengers carried.....	1,598,906
Percentage of transfer passengers to revenue passengers.....	18.17
Freight motor-cars operated.....	1
Freight motor-hours operated.....	2,302
Total passenger freight and service car-miles operated.....	338,574

Accidents—twenty-four of which nineteen were due to automobiles.

Accidents per 100,000 car-miles, 1927—8.24; 1928—4.25; 1929—12.3; 1930—7.2.

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to Properties Operated by The Hydro-Electric Power Commission on Behalf of Municipalities

The following explanatory statement is submitted with a view to affording a satisfactory understanding of the manner in which the various operations of the Hydro-Electric Power Commission of Ontario are conducted and financed and thus contributing to the interest of those concerned either directly or indirectly with the work of the Commission.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of the Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by the Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, the Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.* The financial statements relating to the rural power districts are also presented in this section of the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of the Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

*For further information respecting rural power districts consult latter portion of Section III in this Report.

Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses—including appropriations for reserves,—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such direct expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently, as capital obligations are discharged the plant will progressively be freed from interest expense. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for

*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

The accounts of the Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and are also duly audited.

Tabular Data

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertaking and relates to the properties constructed or otherwise acquired and being operated by the Commission as trustee for the municipalities of the various systems.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

Operating Account for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as Power purchased."*

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

Reserve for Renewals, which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

Reserve for Obsolescence and Contingencies, which gives similar information with respect to this reserve.

*Consult footnote on previous page.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Sinking Fund Reserve, which summarizes the provisions made with respect to this fund.

Section IX also contains operating accounts of the various electric railways operated by the Commission, and a summary of the "Appropriations, Advances and Capital Expenditures" made during the year.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserve to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of the Hydro-Electric Power Commission, and as administrator of its own local distribution system.

CHATHAM "HYDRO" UTILITY

**OPERATING STATEMENT FOR THE YEAR 1930
REVENUE**

Revenue from Chatham "Hydro" customers for year \$236,017.22

EXPENSES

Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See "Cost of Power" statement, page 158, for the city of Chatham, as follows:

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines together with administrative expenses	\$44,279.18
Interest on Chatham's proportionate share of capital investment in generating plants, transformer stations and transmission lines	46,024.91
Sinking Fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	10,188.59

Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	\$9,204.81
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency or obsolescence expense.....	16,214.49
	<hr/> \$125,911.98

Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:

Operation, maintenance and administrative expenses..	\$66,672.16
Interest and fixed charges on debenture debt.....	22,388.00
Depreciation charge.....	13,668.00
	<hr/> \$102,728.16
Total expenses charged against revenue from customers of the Chatham system.....	\$228,640.14
Net surplus for the year.....	<hr/> \$7,377.08

The municipality of Chatham, situated at the western end of the Niagara system, 194 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in February, 1915. This Hydro utility complied with every monetary obligation imposed upon it by the Power Commission Act. With the close of the fifteenth year of operation, this utility's total assets are \$840,719.33, liabilities, \$295,045.49, and reserves and surplus, \$545,673.84, as shown in the municipalities' balance sheets, in Section X, Statement "A."

By reference to this municipality's balance sheet, it will be noted that the Chatham "Hydro" utility has created a sinking fund equity amounting to \$160,923.97 in the Hydro-Electric Power Commission System.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in Chatham have resulted in *average costs** to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 100 kilowatt-hours) 1.7 cents per kilowatt-hour; commercial service 1.6 cents per kilowatt-hour. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C."

*If proper differentiation be made by those undertaking research, between the very different entities of rates on the one hand and the derived quantities of average costs or revenues on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER

ASSETS

Niagara System:

Generating plants:

Queenston-Chippawa development	\$76,847,989	74
Ontario Power development, including water rights....	22,067,034	12
Toronto Power development, including water rights...	11,327,094	02

Transmission lines:

Right-of-way	8,100,641	52
Steel-tower and wood-pole lines	22,173,550	18

Transformer stations	30,781,455	66
----------------------------	------------	----

\$171,297,765 24

Distribution lines:

Rural power districts	\$4,839,295	08
Rural lines	35,527	44

4,874,822 52

\$176,172,587 76

Undertakings and Companies acquired as at January 1, 1930, from Dominion Power and Transmission Company, Limited, under purchase agreement dated April 2, 1930, and supplemental agreement dated August 14, 1930 (see balance sheet on page 152)

21,489,434 83

Chats Falls Power development:

Expenditures to date	2,137,230.	18
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Thunder Bay System:

Nipigon generating plants	\$14,901,532.	67
Transmission lines	1,899,320.	70
Transformer stations	844,942.	94

17,645,796. 31

Georgian Bay System:

Generating plants	\$3,350,503.	84
Transmission lines	2,516,712.	44
Transformer stations	1,034,050.	27

Distribution lines:

Rural power districts	\$457,361.	39
Rural lines	2,807.	43
Local distribution system	57,999.	13

518,167. 95

\$7,419,434. 50

Walkerton and Saugeen properties acquired as at March 31, 1930

521,232. 46

7,940,666. 96

Eastern Ontario System:

Generating plants, including water rights	\$10,123,804.	16
Transmission lines	3,873,463.	68
Transformer stations	2,417,900.	48

\$16,415,168. 32

Rural power districts	\$1,070,638.	33
Local distribution systems	2,541,771.	47

3,612,409. 80

\$20,027,578. 12

Surveys and engineering *re* power sites:

Ottawa river	\$154,731.	47
St. Lawrence river	734,873.	31

889,604. 78

Sudbury District:

Properties, buildings, plant, equipment and water rights on Wahnapietee river	\$2,661,567.	04
Transmission line, Abitibi-Sudbury	144,939.	01

2,806,506. 05

Carried forward

\$249,109,404. 99

COMMISSION OF ONTARIO
and Liabilities, October 31, 1930
UNDERTAKINGS

LIABILITIES

To Province of Ontario:

Cash advances for Niagara and other systems.....	\$187,474,476.18	
Less: Repayment under provisions of Power Commission Acts, 1926 and 1927.....	10,675,033.88	
		\$176,799,442.30
Grants in the hands of the Commission to apply against certain rural power districts in course of construction or extension.....	\$80,137.91	
Less: Grants payable by the Province to the Commission in respect of certain rural power districts completed or in course of construction.....	1,282.52	
		78,855.39

**Debentures issued by the Commission and guaranteed by the
Province of Ontario:**

Four and three-quarter per cent debentures due 1970, issued in purchase of Undertakings and Companies from Dominion Power & Transmission Company, Limited, as at January 1, 1930.....	\$13,000,000.00	
Five per cent debentures, due 1935, issued in purchase of Undertakings and Companies from Dominion Power & Transmission Company, Limited, as at January 1, 1930.	8,000,000.00	
Interest accrued thereon.....	340,095.00	
		\$21,340,095.00
Four per cent debentures due 1957, issued in purchase of Ontario Power Company of Niagara Falls.....	\$8,000,000.00	
Interest accrued thereon.....	80,000.00	
		8,080,000.00
Six per cent debentures due 1941, issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.	\$3,200,000.00	
Interest accrued thereon.....	67,856.16	
		3,267,856.16
Six per cent debentures due 1940, issued in purchase of the Toronto Power Company, Limited.....	\$413,200.00	
Interest accrued thereon.....	10,330.00	
		423,530.00
Six per cent debentures due 1940, issued in purchase of certain electrical power equip- ment of the Toronto and York Radial Railway.....	\$205,800.00	
Interest accrued thereon.....	5,145.00	
		210,945.00
Five per cent debentures due 1939, issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited...	\$4,000,000.00	
Interest accrued thereon.....	75,000.00	
		4,075,000.00
Four per cent debentures due 1958, issued in purchase of distribution lines of Essex County.....	\$200,000.00	
Interest accrued thereon.....	3,333.34	
		203,333.34
Four per cent debentures due 1958, issued in purchase of distribution lines in vicinity of Thorold.....	\$100,000.00	
Interest accrued thereon.....	1,666.67	
		101,666.67
		37,702,426.17
Carried forward.....		\$214,580,723.86

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER UNDER

ASSETS

Brought forward		\$249,109,404.99	
Patricia District:			
Ear Falls generating plant	\$486,645.08		
Excess of operating expenses and interest over revenue in broken period to October 31, 1930—temporarily carried forward	4,391.97		491,037.05
Donnechere River Storage:			
Round Lake dam	\$23,072.93		
Golden Lake dam	11,092.81		34,165.74
Service Buildings and Equipment:			
Service building and equipment, Toronto	\$498,060.49		
Equipment of storehouse and garage, Hamilton	3,666.40		
Pole yard and equipment, Cobourg	22,117.65		523,844.54
Office Buildings:			
On University avenue, Toronto	\$525,007.00		
On corner Elm street and Centre avenue, Toronto	160,821.95		685,828.95
Office Furniture and Equipment:			
At Toronto office	\$70,339.35		
At Electrical Inspection offices	7,501.26		77,840.61
Automobiles and Trucks			19,049.88
Inventories:			
Construction and maintenance tools and equipment	\$892,887.61		
Construction material and sundry supplies	813,549.25		
Maintenance material and supplies	580,075.35		
Stationery and office supplies	25,530.34		2,312,042.55
Sinking Funds:			
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act, 1926 and 1927	\$10,675,033.88		
Employed in retirement of bonds issued or assured by the Commission and guar- anteed by the Province	5,766,563.97		
	\$16,441,597.85		
Invested in securities of the Province of Ontario which stand—			
(a) Deposited with Provincial Treasurer, par value, \$1,171,000.00	\$1,146,454.29		
(b) In the hands of the Commission, par value, \$580,000.00 Interest accrued thereon	579,266.19 21,992.54		1,747,713.02
Insurance Funds:			
(a) Invested in securities of the Dominion of Canada, par value, \$750,000.00	\$758,347.76		
(b) Invested in securities of the Province of Ontario, par value, \$28,000.00	28,892.97		
Interest accrued thereon	620.08		787,860.81
Staff Pension Funds:			
Invested in securities of the Province of Ontario, par value, \$1,995,000.00	\$1,952,419.29		
Invested in bonds of the Wahnapietoe Power Company, Limited, par value, \$113,400.00	118,977.67		
Interest accrued thereon	20,734.09		2,092,131.05
Carried forward			\$257,880,919.19

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued		LIABILITIES	
Brought forward.....			\$214,580,723.86
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario:			
First mortgage 5% gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917.....	\$9,834,000.00		
Less: Retired by the Commission.....	1,704,000.00		
		\$8,130,000.00	
Interest accrued thereon.....		101,625.00	
			\$8,231,625.00
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917.....	\$1,772,000.00		
Less: Retired by the Commission.....	409,000.00		
		\$1,363,000.00	
Interest thereon payable November 1, 1930.....		34,075.00	
			1,397,075.00
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920....	\$13,558,917.81		
Less: Retired by the Commission.....	6,290,288.33		
		\$7,268,629.48	
Interest thereon payable November 1, 1930.....		163,544.16	
			7,432,173.64
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920....	\$4,335,000.00		
Less: Retired by the Commission.....	894,000.00		
		\$3,441,000.00	
Interest accrued thereon.....		28,675.00	
			3,469,675.00
Other Debentures Assumed:			20,530,548.64
In respect of purchase of lines at Streetsville:			
Amount assumed at date of purchase.....	\$6,000.00		
Less: Retired by the Commission.....	4,292.78		
		\$1,707.22	
Interest accrued thereon.....		42.68	
			\$1,749.90
In respect of purchase of original Muskoka Power development:			
Amount assumed at date of purchase.....	\$50,595.93		
Less: Retired by the Commission.....	26,237.44		
		\$24,358.49	
Interest accrued thereon.....		918.32	
			25,276.81
In respect of purchase of sundry rural lines:			
Amount assumed at dates of purchase.....	\$63,501.03		
Less Retired by the Commission.....	20,920.23		
		\$42,580.80	
Interest accrued thereon.....		1,015.47	
			43,596.27
In respect of the purchase of the Wahnapiatae properties:			
Six and one-half per cent bonds, due 1944, of the Wahnapiatae Power Company, Limited.....		458,100.00	
			528,722.98
Carried forward.....			\$235,639,995.48

HYDRO-ELECTRIC POWER
Detailed Statements of Assets

POWER UNDER

ASSETS

Brought forward		\$257,880,919.19
Reserve Funds:		
(a) Invested in securities of the Dominion of Canada, par value, \$3,901,850.00	\$3,910,190.98	
(b) Invested in securities of the Province of Ontario, par value, \$20,723,500.00	20,398,295.45	
(c) Invested in securities of the Commission guaranteed by the Province of Ontario, par value, \$3,653,205.00	3,622,995.57	
(d) Invested in bonds of the Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario, par value, \$240,000.00	205,511.97	
(e) Invested in debentures of Ontario municipalities, which debentures were received from certain municipalities upon the sale thereto of their local distribution systems, par value, \$1,155,321.82	1,087,705.87	
Interest accrued thereon	341,550.67	
		29,566,250.51
Securities taken over by the Commission upon the transfer to it of the assets of Galetta Power & Milling Company, Limited, at the cost thereof	\$33,617.50	
Interest accrued thereon	397.51	
		34,015.01
Cash:		
In banks	\$307,656.41	
In banks to pay bond interest due November 1, 1930, and interest coupons overdue but not presented	255,663.92	
Sinking funds on deposit with trustees for bondholders	14,699.17	
In hands of employees as advances on account of expenses	199,853.22	
	\$777,872.72	
Less Funds of Hydro Radial Railways shown elsewhere in this balance sheet	\$121,111.98	
		656,760.74
Accounts receivable:		
Due by municipalities and sundry customers in respect of construction work, supply sales, etc.	\$367,733.21	
Less Reserve for doubtful accounts	15,652.89	
		352,080.32
Due by municipalities and sundry customers in respect of power accounts	\$3,678,077.72	
Less Reserve for doubtful accounts	307,585.61	
		3,370,492.11
Sinking fund and interest accounts owing in respect of rural lines		3,864.84
Due by Town of Renfrew for water used from Bonnechere Storage for power purposes		41,828.88
Claim against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921, which should be recoverable		72,334.46
Balances due by municipalities in respect of the costs of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system	\$35,585.80	
Georgian Bay system	28,893.04	
Eastern Ontario system	21,557.35	
		86,036.19
Carried forward		\$292,064,582.25

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward.....		\$235,639,995.48	
Outstanding share capital of the Electrical Development Company of Ontario, Limited.....		1,100.00	
Accounts payable.....		922,017.06	
Hydro-Electric Power Commission, Hamilton office:			
Current account (see balance sheet, page 152).....		159,243.97	
Interest coupons due but not presented for payment.....		58,044.76	
Insurance department:			
Outstanding claims and awards.....	\$786,040.98		
Surplus.....	105,767.28		
			891,808.26
Reserve for staff pensions.....			2,101,538.33
Balances due to municipalities in respect of amounts paid by them to October 31, 1930, in excess of the cost of power supplied to them as provided to be paid under the Power Commission Act:			
Niagara system.....	\$1,370,631.57		
Thunder Bay system.....	3,063.71		
Georgian Bay system.....	51,574.19		
Eastern Ontario system.....	138,486.38		
			1,563,755.85
Reserves for sinking funds:			
Niagara system.....	\$16,534,198.80		
Niagara rural lines.....	10,712.28		
Thunder Bay system.....	563,192.80		
Georgian Bay system.....	593,883.09		
Georgian Bay rural lines.....	612.20		
Eastern Ontario system.....	473,502.91		
Bonnechere storage.....	11,054.59		
	\$18,187,156.67		
Service buildings.....	91,471.48		
Office buildings.....	118,864.24		
			18,397,492.39
Reserves for renewals:			
Niagara system.....	\$12,950,327.76		
Niagara rural lines.....	3,544.05		
Thunder Bay system.....	774,203.93		
Georgian Bay system.....	1,005,695.02		
Georgian Bay rural lines.....	303.92		
Eastern Ontario system.....	2,640,006.44		
Bonnechere storage.....	7,254.30		
	\$17,381,335.42		
Service buildings.....	264,274.04		
Office buildings.....	95,600.51		
			17,741,209.97
Reserves for obsolescence and contingencies:			
Niagara system.....	\$13,568,525.83		
Niagara rural lines.....	1,723.40		
Thunder Bay system.....	828,595.58		
Georgian Bay system.....	288,862.02		
Georgian Bay rural lines.....	119.78		
Eastern Ontario system.....	1,010,209.01		
Bonnechere storage.....	925.27		
Sudbury district.....	10,582.50		
Walkerton and Saugeen properties.....	305.61		
			15,709,849.00
Balance at credit of interest account.....			16,883.49
Contingent liabilities:			
In respect of contracts entered into for power undertakings in course of construction....	\$2,836,643.74		
Carried forward.....		\$293,202,938.56	

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER UNDER

ASSETS

Brought forward.....		\$292,064,582.00
Work in progress:		
Expenditure on account of various systems chargeable upon completion to:		
Capital construction.....	\$61,471.36	
Operating and maintenance expenses.....	37,429.27	
		98,900.63
Insurance unexpired.....		27,339.41
Discount on debentures issued by the Commission, less amounts written off:		
On debenture issue of \$3,200,000 maturing 1941.....	\$83,298.81	
On debenture issue of \$4,000,000 maturing 1939.....	54,691.20	
		137,990.01
Total Power Undertakings.....		\$292,328,812.30

RADIAL RAILWAY

Sandwich, Windsor and Amherstburg Railway:		
Road and equipment.....	\$5,394,228.57	
Material and supplies.....	114,516.91	
Cash in banks:		
In the general bank account of the Commission at Toronto.....	\$112,292.98	
In branch banks.....	10,341.10	
Accounts receivable.....	67,658.02	
		190,292.10
Insurance and expenses prepaid.....		8,999.26
Due by certain municipalities in accordance with the apportionment by the Commission of the operating deficit for the year ending October 31, 1930, as provided under sections 9 and 10 of the Hydro-Electric Railway Act..	147,992.59	
		\$5,856,029.43

Carried forward.....\$298,184,841.73

COMMISSION OF ONTARIO
and Liabilities—Continued
TAKINGS—Continued

LIABILITIES

Brought forward.....\$293,202,938.56

Total Power Undertakings.....\$293,202,938.56

UNDERTAKINGS

In respect of the Sandwich, Windsor and Amherstburg Railway:

Debentures issued by the Commission and guaranteed by the Province of Ontario:

Four and one-half per cent debentures, due 1960, issued in purchase of the railway.....	\$2,039,000.00	
Four and one-half per cent debentures, due 1960, issued for the purpose of making extensions and betterments.....	61,000.00	
Six per cent debentures, due 1961, issued for the purpose of making extensions and betterments.....	900,000.00	
Five per cent debentures, due 1943, issued for the purpose of making extensions and betterments.....	966,205.00	
Five per cent debentures, due 1945, issued for the purpose of making extensions and betterments.....	750,000.00	
Five per cent debentures, due 1945, issued for the purpose of making extensions and betterments.....	100,000.00	
Five per cent debentures, due 1946, issued for the purpose of making extensions and betterments.....	600,000.00	
	\$5,416,205.00	
Interest accrued thereon.....	56,010.05	\$5,472,215.05
Bank of Montreal—advances (secured by hypothecation of \$400,000 five per cent 1946 debentures of the Commission guaranteed by the Province).....		275,000.00
Accounts payable and accrued charges.....	\$7,101.00	
Provision for unredeemed tickets.....	12,000.00	
Deposit to cover cost of industrial spur.....	1,423.51	
		20,524.51
Premiums (less discount) on sale of debentures—less portion written off.....		57,037.96
Reserve for renewal of road and equipment.....		18,352.66
Reserve for Sinking Fund.....		12,899.25
Contingent Liability:		
In respect of contracts entered into for work under construction.....	\$2,213.76	
		5,856,029.43
Carried forward.....		\$299,058,967.99

HYDRO-ELECTRIC POWER

Detailed Statements of Assets

RADIAL RAILWAY

ASSETS

Brought forward		\$298,184,841.73	
Guelph Radial Railway:			
Road and equipment	\$450,300.18		
Materials and supplies	7,393.13		
Reserve funds:			
Invested in securities of the Province of Ontario, par value, \$25,000	\$22,433.32		
Interest accrued thereon	472.98		
		22,906.30	
Cash in banks:			
In the general bank account of the Commission at Toronto	\$8,819.00		
In bank at Guelph	911.30		
Accounts receivable	9,551.00		
		19,281.30	
Insurance and expenses prepaid		1,158.00	
Due by the city of Guelph:			
Operating deficit for the year ending October 31, 1930, as per operating account	\$32,928.73		
Less Paid on account by the city	29,000.00		
		3,928.73	
			504,967.64
Toronto and York Radial Railway:			
City of Toronto—debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto	\$2,375,000.00		
City of Toronto—interest accrued on \$2,375,000 debentures issued by the Commission in purchase of the Toronto and York Radial Railway	59,375.00		
		2,434,375.00	
Port Credit to St. Catharines Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1930	\$72,647.80		
Construction materials purchased, less amount realized on sale thereof	117,510.09		
Surveying, engineering, administrative expenses and interest	317,929.67		
		508,087.56	
Toronto to Port Credit Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1930—less amounts realized on properties sold	\$459,609.92		
Surveying, engineering, administrative expenses and interest	406,428.78		
		866,038.70	
			\$302,498,310.63

COMMISSION OF ONTARIO

and Liabilities—Concluded

UNDERTAKINGS—Continued

LIABILITIES

Brought forward.....		\$299,058,967.99
In respect of the Guelph Radial Railway:		
City of Guelph—purchase price of the railway payable thereto, in half-yearly instalments, according to purchase agreement.....	\$150,000.00	
Less Eighteen instalments paid thereon.....	54,184.55	
		\$95,815.45
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six per cent debentures, due 1931, issued for the purpose of making extensions and betterments.....	\$300,000.00	
Interest accrued thereon payable November 1, 1930.....	9,000.00	
		309,000.00
Instalments of principal and interest payable to the city of Guelph, May 1, and November 1, 1930, under the terms of the purchase agreement.....		11,700.00
Accounts payable and accrued charges.....	\$1,224.05	
Provision for unredeemed tickets.....	1,300.00	
		2,524.05
Premiums on sale of debentures—less portion written off.		1,329.10
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the city of Guelph.....		54,184.55
Reserve for renewal of road and equipment.....		30,414.49
		504,967.64
In respect of Toronto and York Radial Railway:		
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six per cent debentures, due 1940, issued in purchase of the Metropolitan, Scarboro and Mimico Radial Railway divisions.....	\$2,375,000.00	
Interest accrued thereon.....	59,375.00	
		2,434,375.00
In respect of the Port Credit to St. Catharines Radial Railway:		
Bank of Montreal—advances (secured by hypothecation of \$1,200,000 Hydro Radial debentures, being part of an issue of \$11,360,363 guaranteed by the Province of Ontario).....		500,000.00

\$302,498,310.63

HYDRO-ELECTRIC POWER

Statement of Assets and Liabilities—as at 31st October, 1930—

DOMINION POWER AND

ASSETS

Properties, buildings, plants, lines, equipment, franchises, water-rights, contracts, etc., at the cost thereof to the Commission as at 1st January, 1930.....	\$21,000,000.00	
Net additions in the ten months ending 31st October, 1930.....	58,152.14	
	<u>\$21,058,152.14</u>	
Deduct: Provisions for depreciation on buses, less charges thereagainst, in the ten months ending 31st October, 1930.....	123,066.66	
		<u>\$20,935,085.48</u>
Current assets:		
Cash in banks and on hand.....	\$200,923.68	
Cash in hands of employees.....	14,799.36	
Accounts receivable.....	230,558.90	
Materials and stores.....	216,495.08	
Insurance deposits and prepayments.....	21,637.45	
Power and light revenue accrued.....	38,500.00	
		<u>722,914.47</u>
Hydro-Electric Power Commission—Toronto Office, current account.....	\$499,338.97	
Less accrued interest on Commission's bonds, charged by the Commission.....	340,095.00	
		<u>159,243.97</u>
		<u><u>\$21,817,243.92</u></u>

COMMISSION OF ONTARIO

of Undertakings and Companies Acquired 1st January, 1930, from

TRANSMISSION COMPANY, LIMITED

LIABILITIES

Hydro-Electric Power Commission of Ontario:

Bonds issued by the Commission and guaranteed by the Province, in purchase of the Undertakings and Companies.....	\$21,000,000.00	
Cash paid by the Commission in purchase of inventories, accounts receivable and cash working funds.....	489,434.83	
		<u>\$21,489,434.83</u>

Current liabilities:

Accounts payable.....	\$163,724.28	
Dominion Power Company—on adjustments.....	17,625.74	
Customers' deposits.....	7,954.27	
Realty and business taxes payable and accrued.....	24,556.50	
Pensions awarded (approximate actuarial liability).....	\$55,092.10	
Less: deposits thereagainst.....	54,205.15	
		<u>886.95</u>
Provision for accident claims.....	6,230.43	
Provision for outstanding tickets.....	11,900.00	
Reserve against accounts receivable.....	42,151.82	
		<u>275,029.99</u>

Surplus—For period 1st January to 31st October, 1930, after making provision for interest on the bonds of the Commission issued in purchase of the Undertakings and Companies, but before provision for depreciation on plants and equipment other than on the buses.....

52,779.10

\$21,817,243.92

HYDRO-ELECTRIC POWER

Statement of Revenue and Expenditure for the period 1st January to 31st October.

DOMINION POWER AND

EXPENDITURE

Of power and light plants and utilities:		
Cost of operating and maintaining generating plants, transmission lines, stations and distribution systems.....	\$468,615.48	
Water rentals.....	176,951.37	
Power purchased.....	134,734.54	
Taxes—Realty and business.....	69,648.29	
Commercial expenses.....	54,215.21	
General and administrative expenses—proportion.....	80,028.51	
Provision for bad debts.....	2,306.89	
		\$986,500.29
Of Hamilton street railway, radial railways and bus lines—		
Cost of operating and maintaining buildings, rights-of-way, rolling stock, buses and other equipment.....	\$1,115,396.03	
Electric Power.....	167,817.20	
Depreciation on buses.....	165,222.85	
Taxes—Realty and business.....	107,917.27	
General and administrative expenses—proportion.....	152,171.98	
Provision for bad debts.....	2,500.00	
		1,711,025.33
Of Hamilton Terminal building—		
Wages, heating, power, light and sundry expenses.....	\$12,955.33	
Taxes—Realty and business.....	10,545.23	
General and administrative expenses—proportion.....	1,886.74	
		25,387.30
Net loss on purchase and sale of electric appliances and merchandise.....		384.86
		\$2,723,297.78
Interest on the bonds issued by the Commission, and guaranteed by the Province of Ontario, in purchase of the Undertakings and Companies.....		848,845.00
		\$3,572,142.78
Surplus for the period 1st January to 31st October, 1930, before provision for depreciation on plants and equipment other than on the buses.....		52,779.10
		<u>\$3,624,921.88</u>

COMMISSION OF ONTARIO

1930—of Undertakings and Companies Acquired 1st January, 1930, from
TRANSMISSION COMPANY, LIMITED

REVENUE

From power and light plants and utilities—		
Power and light sold to customers.....	\$1,514,180.08	
Power supplied to Hamilton street railway and the radial railways.....	167,817.20	
Power and light supplied to the buildings, shops and services of the associated companies.....	6,493.25	
		\$1,688,490.53
From Hamilton street railway, radial railways and bus lines—		
Passenger, freight and miscellaneous.....		1,896,699.15
From Hamilton Terminal building—Rentals (including those charged the Commission and associated companies).....		39,732.20

\$3,624,921.88

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Undertakings and Companies Acquired 1st January, 1930, from Dominion Power Transmission Company, Limited, under provisions of Purchase Agreement dated 2nd April, 1930, and Supplemental Agreement dated 14th August, 1930

All the outstanding shares of the following companies:

1. Hamilton Cataract Power, Light and Traction Company, Limited, which Company in turn owns all the outstanding shares of the companies following:
 - (a) Hamilton Electric Light and Power Company, Limited.
 - (b) Hamilton Street Railway Company.
 - (c) Hamilton and Dundas Street Railway Company (not operating).
 - (d) Hamilton Radial Electric Railway Company (not operating).
 - (e) Dundas Electric Company, Limited.
 - (f) Lincoln Electric Light and Power Company, Limited.
 - (g) Hamilton Electric Light and Cataract Power Company (not operating).
 2. Hamilton, Grimsby and Beamsville Electric Railway Company.
 3. Brantford and Hamilton Electric Railway Company.
 4. Hamilton Terminal Company, Limited.
 5. Western Counties Electric Company, Limited.
 6. Highway King Buses, Limited.
 7. Brantford Electric and Operating Company, Limited (not operating).
- Steam generating plant situated at Hamilton.
Certain real estate and rights-of-way.

NIAGARA

Operating Account for the

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE
POWER COMMISSION ACT

Power purchased.....		\$2,644,916.07
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment.....	\$4,185,370.37	
Rural power districts.....	408,419.77	
		<u>4,593,790.14</u>
Interest on capital investment in:		
Generation and transmission equipment.....	\$8,069,566.72	
Rural power districts.....	186,962.86	
		<u>8,256,529.58</u>
Provision for renewals of:		
Generation and transmission equipment.....	\$1,438,994.71	
Rural power districts.....	167,463.56	
		<u>1,606,458.27</u>
Provision for obsolescence and contingencies in respect of:		
Generation and transmission equipment.....	\$2,810,053.15	
Rural power districts.....	83,731.78	
		<u>2,893,784.93</u>
Provision for sinking funds for repayment of the cash advances by the Province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:		
By charges included in the cost of power delivered to muni- cipalities and rural power districts.....	\$1,245,766.22	
By charges against contracts with private companies which purchase power.....	504,454.79	
By charges included in the cost of distribution of power within rural power districts.....	44,370.01	
		<u>1,794,591.02</u>
		<u><u>\$21,790,070.01</u></u>

SYSTEM

Year Ending October 31, 1930

REVENUE FOR PERIOD

Collected from municipalities.....	\$15,009,844.09	
Power sold to private companies.....	5,987,225.80	
Power supplied at cost to the Hydro Radial Railway (S.W. & A. and W.E. & L.S.).....	114,011.86	
Collected from customers in rural power districts.....	1,628,018.20	
		<u>\$22,739,099.95</u>

Add:

Amounts due by certain municipalities, being the difference
between the sums paid and the cost of power supplied to
them in the year..... \$11,967.70

Amounts due by municipalities comprising certain rural power
districts, being the difference between the revenue col-
lected from customers therein and the cost of power
supplied them in the year..... 23,721.41

35,689.11

\$22,774,789.06

Deduct:

Amounts collected from certain municipalities in excess of the
sums required to be paid by them for power supplied in
the year..... \$839,016.71

Amounts collected from customers in certain rural power
districts in excess of the cost of power delivered thereto... 145,702.34

984,719.05

Revenue..... \$21,790,070.01

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton	34.00	33.00	173,149.82	709.8	2,161.48	6,092.39	8,025.56
Agincourt.	44.00	42.00	40,292.52	127.1	387.04	935.47	1,867.32
Ailsa Craig.		48.00	35,137.36	102.5	312.13	1,480.66	1,602.96
Alvinston.		90.00	61,962.35	84.4	257.01	2,196.17	2,788.44
Amherstburg.		40.00	160,066.79	606.9	1,848.13	5,748.72	7,500.30
Ancaster twp.		30.00	48,594.63	225.3	686.08	1,741.54	2,294.45
Arkona.		75.00	29,815.30	52.3	159.26	1,092.74	1,361.66
Aylmer.	38.00	36.00	122,041.73	472.9	1,440.07	3,390.47	5,706.31
Ayr.		35.00	38,036.92	155.5	473.53	1,760.92	1,772.60
Baden.		32.00	67,297.26	278.3	847.48	1,987.04	3,130.51
Barton twp.		30.00	12,925.72	70.5	214.69	612.11	622.34
Beachville.	34.00	33.00	67,903.67	304.0	925.74	2,068.93	3,158.75
Belle River.		38.00	33,040.63	128.6	391.61	1,235.29	1,550.46
Blenheim.		39.00	96,062.99	347.2	1,057.29	3,747.46	4,461.10
Blyth.	63.00	60.00	36,912.20	83.8	255.19	1,234.35	1,690.60
Bolton.	46.00	44.00	38,217.28	117.0	356.29	1,367.33	1,741.60
Bothwell.	45.00	44.00	29,838.70	100.7	306.65	1,481.48	1,387.20
Brampton.	30.00	29.00	395,165.74	1,884.7	5,739.28	11,718.80	18,700.52
Brantford.		27.00	2,032,096.87	9,906.6	30,167.51	49,678.21	96,319.77
Brantford twp.		27.00	108,048.52	524.2	1,596.29	4,410.61	5,170.65
Bridgeport.		32.00	16,939.88	78.3	238.44	1,124.06	809.84
Brigden.	75.00	72.00	38,676.71	78.9	240.27	1,793.69	1,788.19
Brussels.		52.00	49,195.78	123.8	376.99	1,593.11	2,260.87
Burford.	40.00	38.00	34,983.26	140.5	427.85	1,123.14	1,614.78
Burgessville.	46.00	43.00	17,577.61	57.2	174.19	773.24	809.61
Caledonia		29.00	64,192.21	298.0	907.47	1,559.92	3,041.42
Campbellville	70.00	60.00	6,958.38	25.9	78.87	215.96	312.55
Cayuga.	60.00	55.00	27,475.16	82.9	252.45	1,202.83	1,268.84
Chatham.		30.00	976,775.56	4,409.5	13,427.78	28,282.05	46,024.91
Chippawa.		25.00	40,857.15	246.2	749.73	1,860.80	1,974.95
Clifford.		56.00	24,629.54	54.8	166.88	835.94	1,140.16
Clinton.		38.00	118,059.10	416.0	1,266.80	3,277.78	5,475.45
Comber.		45.00	46,372.98	136.7	416.28	1,754.56	2,117.10
Cottam.		45.00	18,547.63	60.8	185.15	688.75	866.79
Courtright.	80.00	75.00	22,990.65	44.4	135.21	1,052.32	1,045.60
Dashwood		50.00	25,389.00	64.4	196.11	783.23	1,101.98
Delaware.	38.00	36.00	7,995.42	34.3	104.45	327.87	376.81
Dorchester.		38.00	18,506.97	71.2	216.82	773.53	848.30
Drayton.		55.00	39,146.65	86.8	264.32	1,106.98	1,758.30
Dresden		45.00	88,626.52	279.2	850.22	3,767.80	4,085.43

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,715.06	2,723.22	1,782.02	413.59	22,913.32	23,526.54	613.22	.....
423.33	549.32	419.45	74.06	4,655.99	5,376.86	720.87	.....
404.04	485.13	367.84	59.73	4,712.49	4,921.32	208.83	.....
825.56	690.62	652.08	49.18	7,459.06	7,594.50	135.44	.....
1,633.16	2,502.60	1,672.45	353.63	21,258.99	24,273.95	3,014.96	.....
462.80	805.54	506.25	131.28	6,627.94	6,759.99	132.05	.....
382.81	351.19	313.70	30.47	3,691.83	3,925.60	233.77	.....
1,259.75	1,888.80	1,272.83	275.55	15,233.78	17,208.86	1,975.08	.....
381.28	600.98	394.50	90.61	5,474.42	5,443.34	.....	31.08
675.84	1,083.79	702.77	162.16	8,589.59	8,904.61	315.02	.....
111.15	224.90	134.79	41.08	1,961.06	2,113.75	152.69	.....
654.53	1,128.88	708.34	177.14	8,822.31	10,082.86	1,260.55	.....
331.92	521.25	344.46	74.93	4,449.92	4,887.41	437.49	.....
1,012.06	1,490.02	1,003.92	202.31	12,974.16	13,538.82	564.66	.....
451.63	472.12	387.03	48.83	4,539.75	5,072.02	532.27	.....
429.59	524.86	399.07	68.17	4,886.91	5,198.68	311.77	.....
333.95	456.57	319.55	58.68	4,344.08	4,451.09	107.01	.....
3,663.62	6,439.86	4,119.24	1,098.19	51,479.51	59,524.30	8,044.79	.....
18,643.39	34,230.74	21,168.50	5,772.44	255,980.56	267,477.50	11,496.94	.....
994.32	1,819.12	1,125.60	305.44	15,422.03	14,152.03	.....	1,270.00
160.22	286.83	176.71	45.62	2,841.72	2,507.22	.....	334.50
493.07	502.28	413.96	45.97	5,277.43	5,723.79	446.36	.....
587.17	656.18	515.57	72.14	6,062.03	6,437.13	375.10	.....
349.83	562.82	360.19	81.87	4,520.48	5,382.62	862.14	.....
193.58	247.75	182.72	33.33	2,414.42	2,487.48	73.06	.....
610.78	1,063.68	668.66	173.64	8,025.57	8,641.96	616.39	.....
68.26	102.98	69.18	15.09	862.89	1,601.66	738.77	.....
313.76	381.34	286.99	48.30	3,754.51	4,634.11	879.60	.....
9,204.81	16,214.49	10,188.59	2,569.35	125,911.98	132,522.02	6,610.04	.....
336.21	728.90	424.92	143.46	6,218.97	6,154.75	.....	64.22
307.15	307.07	261.38	31.93	3,050.51	3,065.98	15.47	.....
1,264.27	1,725.40	1,234.92	242.40	14,487.02	15,349.41	862.39	.....
525.29	651.36	484.29	79.65	6,028.53	6,151.46	122.93	.....
200.82	271.05	193.68	35.43	2,441.67	2,734.10	292.43	.....
289.08	273.38	241.10	25.87	3,062.56	3,373.10	310.54	.....
284.13	319.69	252.36	37.53	2,975.03	3,221.20	246.17	.....
78.76	129.40	83.46	19.99	1,120.74	1,247.49	126.75	.....
186.87	287.92	189.67	41.49	2,544.60	2,703.96	159.36	.....
473.11	480.84	404.60	50.58	4,538.73	4,776.72	237.99	.....
983.06	1,291.77	926.07	162.69	12,067.04	12,563.24	496.20	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Drumbo.....		45.00	16,999.39	59.4	180.88	1,316.28	776.88
Dublin.....		50.00	17,040.38	40.7	123.94	799.72	776.31
Dundas.....		25.00	298,098.78	1,605.1	4,887.84	6,698.95	14,250.40
Dunville.....	38.00	35.00	164,373.26	680.7	2,072.86	6,386.60	7,890.80
Dutton.....		38.00	50,451.31	209.6	638.27	2,221.34	2,361.95
East Windsor..	33.00	32.00	875,881.80	3,839.6	11,692.32	24,480.02	41,536.47
Elmira.....		31.00	251,578.65	1,035.5	3,153.30	6,252.07	11,710.10
Elora.....		35.00	103,815.31	412.7	1,256.75	5,286.93	4,807.15
Embro.....		55.00	28,334.82	79.3	241.48	1,061.73	1,294.93
Erieau.....	58.00	56.00	22,746.94	52.9	161.09	984.28	1,037.77
Erie Beach....	65.00	70.00	6,447.48	13.8	42.02	286.34	294.59
Essex.....		35.00	85,149.40	342.4	1,042.67	2,735.87	3,993.35
Etobicoke twp..	30.00	29.00	594,597.56	2,776.3	8,454.37	15,094.98	28,336.45
Exeter.....		38.00	108,022.91	391.4	1,191.89	3,049.22	5,021.05
Fergus.....		35.00	158,982.40	658.7	2,005.87	7,929.04	7,424.98
Fonthill.....		35.00	22,395.58	106.5	324.31	1,041.75	1,075.20
Forest.....		48.00	96,166.78	285.9	870.62	3,900.43	4,460.28
Galt.....		27.00	1,336,396.04	6,591.3	20,071.78	34,918.81	63,387.07
Georgetown.....		35.00	244,995.57	922.6	2,809.50	8,569.50	11,362.82
Glencoe.....	60.00	58.00	64,582.15	155.8	474.44	2,853.85	3,003.21
Goderich.....		42.00	330,870.67	1,032.1	3,142.94	9,418.18	15,247.06
Granton.....		48.00	21,577.64	62.8	191.24	966.09	988.79
Guelph.....		27.00	1,507,759.96	7,961.5	24,244.31	43,011.99	71,844.41
Hagersville.....		31.00	227,772.34	1,001.0	3,048.24	5,059.69	10,737.60
Hamilton.....		23.50	11,285,973.85	61,535.0	187,385.96	236,348.47	544,453.87
Harriston.....		42.00	83,988.24	293.2	892.85	3,603.46	4,052.40
Harrow.....		40.00	83,604.65	302.6	921.47	2,538.36	3,719.51
Hensall.....		50.00	48,070.71	141.0	429.37	1,508.83	2,216.93
Hespeler.....		29.00	252,215.77	1,187.4	3,615.86	7,485.38	11,957.78
Highgate.....		44.00	29,208.89	92.9	282.90	1,290.28	1,345.91
Humberstone..		28.00	70,820.06	319.2	972.03	3,084.40	2,941.76
Ingersoll.....		28.00	433,327.41	2,137.4	6,508.80	11,723.95	20,542.82
Jarvis.....		38.00	49,899.47	174.4	531.08	1,202.34	2,331.15
Kingsville.....		40.00	113,630.36	429.1	1,306.69	3,406.91	5,270.25
Kitchener.....		27.00	3,160,548.90	15,623.7	47,577.18	77,236.63	150,212.26
Lambeth.....		42.00	26,773.72	97.1	295.69	1,106.07	1,247.21
LaSalle.....		38.00	64,279.70	257.3	783.53	1,892.50	3,043.09
Leamington.....		38.00	267,169.67	964.3	2,936.48	7,677.88	12,443.40
Listowel.....		36.00	218,981.37	832.3	2,534.51	8,208.83	10,018.73
London.....		26.00	5,536,853.41	28,184.5	85,827.25	127,259.97	263,690.25

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
180.21	249.45	174.96	34.61	2,913.27	2,673.35	239.92	
206.03	247.69	178.63	23.72	2,356.04	2,034.96	321.08	
2,602.49	5,158.01	3,119.07	935.27	37,652.03	40,733.97	3,081.94	
1,754.14	2,373.97	1,753.85	396.63	22,628.85	24,229.08	1,600.23	
503.75	812.47	525.81	122.13	7,185.72	7,963.17	777.45	
8,278.58	14,399.20	9,139.10	2,237.28	111,762.97	123,479.69	11,716.72	
2,496.31	4,000.88	2,602.00	603.37	30,818.03	32,101.50	1,283.47	
1,051.03	1,606.44	1,073.91	240.47	15,322.68	14,443.68	879.00	
330.07	392.09	296.63	46.21	3,663.14	4,359.18	696.04	
273.73	289.55	236.88	30.82	3,014.12	2,975.19	38.93	
79.49	80.69	67.48	8.04	858.65	959.34	100.69	
841.44	1,362.26	887.42	199.51	11,062.52	11,984.50	921.98	
5,535.31	9,902.99	6,199.27	1,617.71	75,141.08	81,022.71	5,881.63	
1,150.33	1,603.49	1,129.07	228.06	13,373.11	14,872.21	1,499.10	
1,578.13	2,461.81	1,644.27	383.82	23,427.92	23,055.04	372.88	
216.88	347.99	233.99	62.06	3,302.18	3,727.17	424.99	
1,090.40	1,389.96	1,011.19	166.59	12,889.47	13,721.04	831.57	
12,167.80	22,641.09	13,929.25	3,840.66	170,956.46	186,443.54	15,487.08	
2,562.11	3,682.61	2,549.94	537.59	32,074.07	32,292.17	218.10	
792.92	849.35	688.31	90.78	8,752.86	9,089.76	336.90	
3,706.16	4,556.59	3,463.64	601.39	40,135.96	42,082.07	1,946.11	
248.13	290.18	225.78	36.59	2,946.80	3,014.10	67.30	
13,115.23	25,981.36	15,690.52	4,639.06	198,526.88	214,959.20	16,432.32	
2,240.90	3,681.63	2,378.93	583.27	27,730.26	31,031.27	3,301.01	
97,080.00	196,346.16	117,686.31	35,855.63	1,415,156.40	1,447,815.18	32,658.78	
956.75	1,284.40	916.50	170.84	11,877.20	12,315.37	438.17	
802.06	1,230.57	825.29	176.32	10,213.58	12,105.30	1,891.72	
551.75	651.41	503.15	82.16	5,943.60	7,049.13	1,105.53	
2,363.53	4,178.84	2,629.73	691.88	32,923.00	36,317.86	3,394.86	
322.99	424.22	305.26	54.13	4,025.69	4,086.09	60.40	
556.05	1,048.06	636.81	185.99	9,425.10	8,937.29	487.81	
3,940.52	7,222.21	4,515.97	1,245.43	55,699.70	59,845.96	4,146.26	
543.67	718.05	522.04	101.62	5,949.95	6,626.55	676.60	
1,146.88	1,774.70	1,176.98	250.03	14,332.44	17,163.96	2,831.52	
28,673.79	53,938.34	32,947.80	9,103.72	399,689.72	421,840.91	22,151.19	
285.07	400.98	279.88	56.58	3,671.48	4,078.20	406.72	
638.62	1,026.46	671.30	149.93	8,205.43	9,776.73	1,571.30	
2,761.77	4,034.92	2,774.38	561.88	33,190.71	36,643.56	3,452.85	
2,193.37	3,366.08	2,234.80	484.97	29,041.29	29,962.50	921.21	
49,225.35	94,809.02	57,709.47	16,422.76	694,944.07	732,796.51	37,852.44	

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
London Ry. Com	15.00	kw. hr.	329,399.56	1,347.1	4,102.18	12,639.64	15,327.51
London twp....	37.00	35.00	60,746.57	253.1	770.74	2,016.80	2,881.44
Lucan.....		37.00	40,739.42	164.8	501.85	1,463.66	1,892.19
Lynden.....		40.00	23,783.98	82.9	252.45	821.04	1,087.90
Markham.....	50.00	45.00	57,329.17	206.5	628.83	2,699.69	2,687.53
Merlin.....		47.00	46,685.59	148.9	453.43	1,537.56	2,164.93
Merritton.....		22.00	360,520.80	2,251.1	6,855.03	9,570.09	17,722.54
Milton.....	32.00	31.00	230,411.12	1,009.1	3,072.90	7,994.46	10,763.87
Milverton.....		33.00	90,366.94	349.1	1,063.08	3,140.07	4,139.24
Mimico.....	27.00	26.00	356,204.47	1,834.9	5,587.62	9,533.92	17,018.44
Mitchell.....		33.00	104,983.93	437.9	1,333.49	3,105.44	4,916.78
Moorefield.....		60.00	20,535.82	44.3	134.90	769.67	921.35
Mount Brydges.....		45.00	20,408.75	77.4	235.70	973.40	954.46
Newbury.....		52.00	13,328.66	36.8	112.06	731.36	624.16
New Hamburg.....		33.00	113,591.58	439.4	1,338.06	3,228.33	5,279.13
New Toronto....		29.00	1,101,820.79	5,113.6	15,571.90	29,848.45	52,128.71
Niagara Falls.....		19.00	1,411,813.71	9,534.1	29,033.17	31,083.93	69,312.62
Niagara on Lake.....		28.00	80,534.19	461.8	1,406.27	3,307.08	3,898.62
Norwich.....		34.00	74,012.07	314.6	958.02	2,579.37	3,448.76
Oil Springs.....		42.00	54,541.20	165.8	504.89	1,885.46	2,491.93
Otterville.....		43.00	22,621.83	81.9	249.40	992.53	1,052.75
Palmerston.....		38.00	126,283.75	452.6	1,378.25	5,044.33	5,754.76
Paris.....		28.00	260,984.13	1,270.1	3,867.70	7,774.92	12,338.49
Parkhill.....		62.00	64,592.78	142.0	432.42	2,273.19	2,945.04
Petrolia.....		40.00	219,534.48	771.9	2,350.58	7,687.97	10,365.32
Petrolia W. W..	52.00	48.00	42,240.63	122.7	373.65	1,225.00	1,741.23
Plattsville.....		60.00	21,522.20	54.3	165.35	1,430.94	967.52
Point Edward.....		40.00	151,701.48	615.2	1,873.40	7,450.05	7,136.53
Port Colborne.....		28.00	321,641.09	1,449.7	4,414.62	13,715.19	13,326.91
Port Credit.....		32.00	102,934.83	472.3	1,438.24	3,573.60	4,876.88
Port Dalhousie.....		30.00	94,766.24	445.9	1,357.85	2,684.02	4,217.61
Port Dover.....		42.00	80,764.98	270.1	822.51	2,588.08	3,759.89
Port Rowan.....	90.00	80.00	38,324.38	64.0	194.89	1,148.37	1,747.47
Port Stanley....	42.00	40.00	93,151.88	321.6	979.33	3,382.05	4,306.02
Preston.....		27.00	670,031.05	3,365.8	10,249.51	18,176.18	31,825.55
Princeton.....		55.00	28,263.74	82.4	250.92	2,097.06	1,290.79
Queenston.....		29.00	17,489.58	89.9	273.76	929.01	836.47
Richmond Hill.....		38.00	56,230.43	226.2	688.82	2,632.33	2,655.68
Ridgetown.....		38.00	112,948.32	421.9	1,284.77	4,398.24	5,267.39
Riverside.....		33.00	291,930.55	1,154.0	3,514.15	6,660.57	13,729.33

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,314.82	5,493.51	3,433.63	784.94	45,096.23	45,377.44	281.21	.....
607.43	969.22	634.33	147.48	8,027.44	8,953.33	925.89	.....
412.88	642.38	425.23	96.03	5,434.22	6,097.88	663.66	.....
260.35	345.58	249.50	48.30	3,065.12	3,315.42	250.30	.....
514.15	798.28	559.58	120.32	8,008.38	9,453.40	1,445.02	.....
516.35	691.39	488.34	86.76	5,938.76	6,996.97	1,058.21	.....
2,851.10	6,383.35	3,753.62	1,311.69	48,447.42	49,525.08	1,077.66	.....
2,244.04	3,595.89	2,403.81	587.99	30,662.96	31,462.88	799.92	.....
918.29	1,430.27	936.18	203.42	11,830.55	11,520.93	.....	309.62
3,106.42	5,999.38	3,709.73	1,069.17	46,024.68	48,061.25	2,036.57	.....
1,041.48	1,670.58	1,096.82	255.16	13,419.75	14,450.31	1,030.56	.....
249.81	248.90	212.36	25.81	2,562.80	2,659.41	96.61	.....
213.23	313.48	213.27	45.10	2,948.64	3,482.59	533.95	.....
158.41	189.81	142.30	21.44	1,979.54	1,911.84	.....	67.70
1,177.15	1,768.90	1,186.87	256.03	14,234.47	14,499.35	264.88	.....
10,294.11	18,370.76	11,487.63	2,979.63	140,681.19	148,293.01	7,611.82	.....
10,517.94	25,750.44	14,698.75	5,555.39	185,952.24	181,146.91	.....	4,805.33
691.97	1,341.91	840.09	269.08	11,755.02	12,931.03	1,176.01	.....
733.36	1,173.66	772.36	183.31	9,848.84	10,697.77	848.93	.....
609.83	824.85	570.61	96.61	6,984.18	6,962.16	.....	22.02
241.24	335.80	236.40	47.72	3,155.84	3,520.59	364.75	.....
1,299.36	1,888.38	1,290.12	263.72	16,918.92	17,198.70	279.78	.....
2,397.20	4,399.22	2,718.85	740.07	34,236.45	35,668.58	1,432.13	.....
798.46	791.46	677.17	82.74	8,000.48	8,803.44	802.96	.....
2,323.39	3,415.03	2,294.48	449.78	28,886.55	30,874.29	1,987.74	.....
479.47	624.03	442.06	71.50	4,956.94	5,973.40	1,016.46	.....
254.47	278.25	222.93	31.64	3,351.10	3,259.00	.....	92.10
1,502.73	2,468.99	1,583.69	358.47	22,373.86	24,607.95	2,234.09	.....
2,525.37	4,759.93	2,892.18	844.72	42,478.92	40,592.49	.....	1,886.43
975.27	1,712.19	1,072.41	275.20	13,923.79	15,114.38	1,190.59	.....
814.59	1,446.00	918.92	259.82	11,698.81	13,378.25	1,679.44	.....
888.79	1,179.36	844.25	157.38	10,240.26	11,342.80	1,102.54	.....
499.78	445.63	403.04	37.29	4,476.47	5,230.15	753.68	.....
1,011.01	1,386.16	973.93	187.39	12,225.89	12,919.15	693.26	.....
6,026.19	11,467.89	6,981.45	1,961.21	86,687.98	91,063.87	4,375.89	.....
320.22	386.83	292.00	48.01	4,685.83	4,531.06	.....	154.77
161.88	290.67	182.62	52.38	2,726.79	2,608.27	.....	118.52
526.52	843.13	587.22	131.80	8,065.50	8,595.87	530.37	.....
1,174.09	1,767.83	1,180.79	245.84	15,318.95	16,032.80	713.85	.....
2,910.14	4,685.53	3,043.02	672.42	35,215.16	38,081.95	2,866.79	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
						Operating, main- tenance and adminis- trative expenses	Interest
	To Jan. 1 1930	To Oct. 31 1930					
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Rockwood.....		45.00	29,256.02	95.8	291.73	1,397.95	1,334.47
Rodney.....		45.00	35,041.52	124.2	378.21	2,009.55	1,628.44
St. Catharines...		21.50	1,398,663.38	8,592.2	26,164.92	34,972.72	68,061.77
St. Clair Beach...		38.00	22,800.36	82.9	252.45	613.76	1,065.03
St. George.....	42.00	40.00	38,588.34	138.4	421.45	1,245.47	1,794.61
St. Jacobs.....		33.00	49,490.79	209.1	636.75	1,356.63	2,315.34
St. Marys.....		34.00	315,872.11	1,312.5	3,996.82	12,353.40	14,782.62
St. Thomas.....		28.00	1,090,744.19	5,416.4	16,493.98	29,307.27	51,652.72
Sandwich.....		30.00	856,980.35	3,570.4	10,872.56	22,939.18	40,468.96
Sarnia.....		34.00	1,646,960.25	6,483.0	19,741.99	45,250.78	77,151.36
Scarboro twp...	35.00	34.00	572,594.77	2,341.2	7,129.41	12,283.39	27,056.49
Seaforth.....		35.00	119,858.68	462.0	1,406.88	3,408.19	5,533.80
Simcoe.....		31.00	276,028.95	1,243.0	3,785.18	7,933.78	13,087.20
Springfield.....		46.00	33,439.73	95.1	289.60	955.10	1,539.19
Stamford twp...		21.00	232,914.47	1,571.2	4,784.61	6,022.42	11,474.75
Stouffville.....	50.00	47.00	48,971.97	145.7	443.68	1,580.72	2,269.87
Stratford.....		30.00	1,560,005.45	7,302.4	22,237.22	44,167.27	73,885.81
Strathroy.....		34.00	217,982.14	903.3	2,750.72	6,599.74	10,222.29
Sutton.....		55.00	49,268.80	146.3	445.51	3,636.26	2,284.21
Tavistock.....		34.00	116,264.47	453.5	1,381.00	3,724.08	5,438.53
Tecumseh.....		35.00	100,058.69	370.6	1,128.55	2,432.90	4,688.09
Thamesford.....		40.00	38,955.61	139.9	426.02	1,459.63	1,802.68
Thamesville.....		40.00	51,323.57	190.6	580.41	2,401.15	2,344.04
Thedford.....	70.00	68.00	28,239.45	55.0	167.49	1,124.84	1,284.18
Thorndale.....		62.00	21,447.05	47.2	143.73	1,089.73	964.14
Thorold.....		24.00	307,054.51	1,799.3	5,479.22	8,578.97	14,972.93
Tilbury.....		38.00	129,354.24	493.3	1,502.19	4,594.93	6,044.63
Tillsonburg.....		33.00	183,331.75	768.6	2,340.54	5,833.85	8,563.43
Toronto.....		26.10	50,259,779.43	246,766.0	751,450.14	1,030,035.00	2,392,660.09
Toronto twp...	33.00	32.00	294,214.89	1,260.4	3,838.17	9,154.34	13,428.77
Walkerville.....		28.00	1,853,053.90	8,549.3	26,034.27	39,773.31	87,814.25
Wallaceburg.....		35.00	510,844.71	1,896.7	5,775.82	14,361.14	23,798.89
Wardsville.....		65.00	12,197.23	27.6	84.05	588.11	550.27
Waterdown.....	32.00	31.00	50,454.02	227.4	692.48	1,365.84	2,371.26
Waterford.....		32.00	89,486.88	382.9	1,166.00	2,835.97	4,214.50
Waterloo.....		27.00	576,955.67	2,788.4	8,491.22	14,604.01	27,009.82
Watford.....		55.00	66,106.68	166.6	507.33	2,313.53	3,036.00
Welland.....		23.00	618,606.19	3,873.6	11,795.86	18,142.18	30,095.34
Wellesley.....		45.00	39,009.45	112.2	341.67	1,100.81	1,780.36
West Lorne.....		38.00	80,978.29	318.3	969.28	3,695.76	3,771.87

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
319.18	429.42	302.08	55.82	4,130.65	4,309.48	178.83	.....
375.68	518.65	365.76	72.37	5,348.66	5,588.23	239.57	.....
11,221.26	24,504.40	14,565.09	5,006.56	184,496.72	184,731.67	234.95	.....
236.48	351.91	237.86	48.30	2,805.79	3,151.44	345.65	.....
413.46	586.66	403.15	80.65	4,945.45	5,580.98	635.53	.....
484.25	803.91	511.51	121.84	6,230.23	6,901.33	671.10	.....
3,078.04	5,200.77	3,300.07	764.78	43,476.50	44,625.82	1,149.32	.....
9,822.61	18,582.69	11,344.98	3,156.08	140,360.33	151,659.12	11,298.79	.....
8,324.78	13,803.12	8,938.23	2,080.42	107,427.25	107,112.00	.....	315.25
16,573.12	26,338.92	17,206.57	3,777.58	206,040.32	220,422.95	14,382.63	.....
5,308.53	8,874.50	5,978.83	1,364.19	67,995.34	80,008.96	12,013.62	.....
1,235.24	1,829.78	1,252.96	269.20	14,936.05	16,168.45	1,232.40	.....
2,655.47	4,460.23	2,878.06	724.28	35,524.20	38,533.50	3,009.30	.....
386.79	451.61	349.65	55.41	4,027.35	4,372.63	345.28	.....
1,737.94	4,241.00	2,425.57	915.52	31,601.81	32,995.34	1,393.53	.....
531.70	651.55	513.41	84.90	6,075.83	6,923.21	847.38	.....
14,507.11	26,317.50	16,282.29	4,255.01	201,652.21	219,070.70	17,418.49	.....
2,185.28	3,346.79	2,276.12	526.34	27,907.28	30,711.88	2,804.60	.....
534.04	649.66	515.64	85.25	8,150.57	8,046.01	.....	104.56
1,191.64	1,852.49	1,215.26	264.25	15,067.25	15,418.95	351.70	.....
1,027.81	1,556.29	1,042.70	215.94	12,092.28	12,970.07	877.79	.....
416.05	584.85	407.00	81.52	5,177.75	5,594.62	416.87	.....
517.11	790.20	524.10	111.06	7,268.07	7,622.62	354.55	.....
355.85	345.25	297.09	32.05	3,606.75	3,757.85	151.10	.....
263.71	264.09	223.89	27.50	2,976.79	2,924.81	.....	51.98
2,561.58	5,383.35	3,198.71	1,048.43	41,223.19	43,183.18	1,959.99	.....
1,330.96	2,050.42	1,351.26	287.44	17,161.83	18,747.18	1,585.35	.....
1,829.63	2,806.71	1,913.59	447.85	23,735.60	25,363.16	1,627.56	.....
408,139.42	807,241.66	523,902.87	143,787.27	6,057,216.45	6,440,591.27	383,374.82	.....
2,729.82	4,666.59	2,953.67	734.42	37,505.78	40,545.26	3,039.48	.....
16,975.27	30,632.95	19,325.78	4,981.56	225,537.39	239,379.09	13,841.70	.....
5,319.79	7,889.72	5,337.54	1,105.18	63,588.08	66,383.26	2,795.18	.....
146.48	155.39	126.15	16.08	1,666.53	1,796.12	129.59	.....
489.96	823.80	527.01	132.50	6,402.85	7,087.70	684.85	.....
884.86	1,470.26	933.50	223.11	11,728.20	12,253.31	525.11	.....
5,212.37	9,679.03	5,946.87	1,624.76	72,568.08	75,287.46	2,719.38	.....
785.87	904.79	694.87	97.08	8,339.47	9,162.06	822.59	.....
4,948.72	10,970.90	6,447.02	2,257.10	84,657.12	89,092.90	4,435.78	.....
450.64	528.05	408.40	65.38	4,675.31	5,050.47	375.16	.....
830.42	1,262.94	844.44	185.47	11,560.18	12,093.46	533.28	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Weston.....		28.00	585,459.25	2,944.5	8,966.57	15,370.19	27,868.26
Wheatley.....		45.00	44,842.46	130.4	397.09	1,506.93	2,177.91
Windsor.....		28.00	5,496,610.43	25,371.4	77,260.81	114,864.84	260,480.14
Woodbridge.....		36.00	66,140.20	256.8	782.01	1,911.05	2,999.04
Woodstock.....		27.00	944,392.28	4,933.8	15,024.37	24,392.82	45,100.48
Wyoming.....		54.00	21,630.42	53.8	163.83	893.03	985.53
York East twp.	35.00	33.00	863,593.63	4,211.8	12,825.74	40,757.42	41,440.71
York North twp.		32.00	369,306.06	1,597.2	4,863.78	12,074.60	17,542.43
Zurich.....		62.00	41,950.89	88.3	268.89	1,466.52	1,824.95
Sandwich, Windsor and Amherstburg Railway.....			778,198.38	3,508.7	10,684.67	16,882.15	37,062.94
Windsor, Essex and Lake Shore Railway.....			180,284.86	542.7	1,652.63	3,826.69	7,671.99
Toronto Transportation Comm.			360,754.00	1,418.5	4,319.61	16,649.82	16,512.15
North York Radial Railway...			42,256.73	187.5	570.97	1,504.69	2,023.07
RURAL POWER DISTRICT							
Acton R.P.D.—Esquesing twp.			487.88	2.0	6.09	17.70	22.71
Ailsa Craig R.P.D.—Lobo twp.			23.34	0.1	0.30	0.77	1.46
Alvinston R. P. D. — Brooke twp.....			880.97	1.2	3.65	30.40	40.08
Amherstburg R.P.D. — Anderdon, Malden, Colchester N., and Colchester S. twps..			130,586.91	495.3	1,508.29	4,357.74	6,117.58
Aylmer R.P.D. — Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N., and Dereham twps.....			51,973.85	192.2	585.28	1,572.57	2,426.30
Ayr R.P.D. — Dumfries N., Dumfries S. and Blenheim twps.....			4,838.43	20.8	63.34	212.30	228.37
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo, Blenheim twps.....			51,675.18	210.9	642.23	1,478.78	2,436.83
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsboro, Clinton, Louth, Pelham and Wainfleet twps.			185,323.66	775.4	2,361.25	7,651.03	8,750.47
Belle River R.P.D.—Maidstone and Rochester twps...			59,421.25	235.1	715.93	1,687.20	2,785.33
Blenheim R.P.D.—Raleigh and Harwich twps.....			30,019.66	108.5	330.40	867.32	1,407.19
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps...			131,274.89	557.2	1,696.78	5,490.12	6,217.21

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,193.65	9,718.85	6,099.60	1,715.72	74,932.84	82,445.74	7,512.90	.....
541.90	654.18	493.43	75.98	5,847.42	5,865.72	18.30	.....
50,335.50	90,863.91	57,323.26	14,783.60	665,912.06	712,882.07	46,970.01	.....
651.85	1,021.15	671.60	149.63	8,186.33	9,243.15	1,056.82	.....
8,257.98	16,237.58	9,836.02	2,874.88	121,724.13	133,212.00	11,487.87	.....
256.71	289.91	226.45	31.35	2,846.81	2,903.40	56.59	.....
7,052.52	13,841.20	9,002.62	2,454.16	127,374.37	140,422.00	13,047.63	.....
3,326.77	5,792.41	3,844.94	930.67	48,375.60	51,111.15	2,735.55	.....
496.68	495.88	421.21	51.45	5,025.58	5,476.63	451.05	.....
7,232.17	12,764.79	8,117.77	2,044.47	94,788.96	94,788.96	.....	.....
1,757.97	2,292.97	1,704.43	316.22	19,222.90	19,222.90	.....	.....
3,543.84	5,392.52	3,764.83	826.54	51,009.31	51,358.74	349.43	.....
369.75	660.00	439.93	109.25	5,677.66	6,186.62	508.96	.....
4.83	7.67	5.02	1.17	65.19	65.19	see page	177
0.23	0.40	0.33	0.06	3.55	3.55	"	"
11.74	9.83	9.27	0.70	105.67	105.67	"	"
1,332.17	2,041.98	1,364.43	288.60	17,010.79	17,010.79	"	"
546.36	793.97	541.43	111.99	6,577.90	6,577.90	"	"
47.41	77.80	50.26	12.13	691.61	691.61	"	"
522.18	830.00	539.61	122.88	6,572.51	6,572.51	"	"
1,893.98	2,812.12	1,933.12	451.82	25,853.79	25,853.79	"	"
591.83	945.17	619.22	136.99	7,481.67	7,481.67	"	"
316.27	465.64	313.72	63.22	3,763.76	3,763.76	"	"
1,188.39	2,014.07	1,370.28	324.67	18,301.52	18,301.52	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps.....	32,757.79	108.7	331.01	1,336.03	1,559.82
Brampton R.P.D.—Chinguacousy and Toronto twps.....	21,059.55	97.5	296.91	985.43	1,005.54
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.....	76,893.65	358.0	1,090.17	3,210.34	3,664.82
Brigden R.P.D.—Moore and Sombra twps.....	12,979.68	26.7	81.31	561.93	604.15
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps.....	21,413.24	86.0	261.89	649.11	999.60
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caistor, Grimsby S. and Barton twps.....	35,383.18	155.5	473.53	1,116.25	1,681.45
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps.....	89,922.59	400.1	1,218.38	2,617.02	4,269.69
Chippawa R.P.D.—Willoughby, and Bertie twps.....	16,943.85	99.1	301.78	752.79	810.18
Clinton R.P.D.—Goderich, Stanley, Tuckersmith and Hay twps.....	26,805.93	83.3	253.66	935.09	1,253.41
Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.....	49,120.30	210.7	641.62	1,553.03	2,316.33
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.....	73,834.86	288.4	878.23	2,462.88	3,399.97
Dresden R.P.D.—Camden and Chatham Gore twps.....	2,714.18	8.9	27.10	92.10	127.36
Drumbo R.P.D.—Blenheim, Burford and Blandford twps.....	24,696.03	72.0	219.26	1,572.69	1,125.75
Dundas R.P.D.—Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.....	78,146.89	390.8	1,190.07	1,665.10	3,730.47
Dunnville R.P.D.—Moulton twp.....	887.47	4.0	12.18	47.55	37.04
Dutton R.P.D.—Dunwich and Aldboro twps.....	23,180.75	92.4	281.37	998.62	1,098.19
Elmira R.P.D.—Woolwich, Peel and Pilkington twps.....	6,495.49	25.5	77.65	217.59	303.74
Elora R.P.D.—Pilkington, Nichol, Garafra W. and Peel twps.....	16,697.61	66.5	202.51	843.12	776.49
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S. and Mersea twps.....	48,745.03	195.8	596.25	1,245.72	2,295.57
Exeter R.P.D.—Hay, Stephen, Usborne, Tuckersmith, Biddulph and Bosanquet twps.....	65,220.83	203.2	618.78	1,810.26	2,955.29

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
367.90	496.23	350.12	63.34	4,504.45	4,504.45	see page	177
198.78	342.42	219.59	56.81	3,105.48	3,105.48	"	"
725.63	1,291.86	801.40	208.61	10,992.83	10,992.83	"	"
164.96	168.82	138.74	15.56	1,735.47	1,735.47	"	"
214.12	344.50	220.47	50.11	2,739.80	2,739.80	"	"
347.60	571.53	369.20	90.60	4,650.16	4,650.16	"	"
854.61	1,490.64	938.09	233.13	11,621.56	11,621.56	"	"
142.80	300.88	176.28	57.74	2,542.45	2,542.45	"	"
300.64	392.98	280.62	48.54	3,464.94	3,464.94	"	"
483.92	794.87	512.00	122.77	6,425.34	6,425.34	"	"
744.25	1,144.73	759.38	168.05	9,557.49	9,557.49	"	"
29.69	40.14	28.35	5.18	349.92	349.92	"	"
279.88	332.97	255.22	41.95	3,827.72	3,827.72	"	"
710.59	1,340.89	813.44	227.71	9,678.27	9,678.27	"	"
6.97	13.13	7.98	2.33	127.18	127.18	see page	179
236.15	364.59	241.67	52.83	3,274.42	3,274.42	"	"
65.98	103.01	67.24	14.86	850.07	850.07	"	"
168.85	256.82	172.72	38.74	2,459.25	2,459.25	"	"
481.98	779.54	508.05	114.09	6,021.20	6,021.20	"	"
709.59	899.37	665.04	118.41	7,776.74	7,776.74	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating main-tenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Forest , R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps.....	3,433.23	10.2	31.06	112.72	160.37
Galt R.P.D.—Dumfries N., Dumfries S. and Beverly twps.....	25,618.11	122.1	371.82	1,413.30	1,221.80
Georgetown R.P.D.—Esquesing and Chinguacousy twps.....	18,589.20	70.4	214.38	660.48	869.33
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps.....	16,896.47	49.4	150.43	445.04	758.80
Grantham R.P.D.—Grantham and Niagara twps.....	81,880.14	444.5	1,353.58	2,177.35	3,823.70
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps.....	48,929.92	231.1	703.75	2,047.28	2,329.32
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N. and Oneida twps.	37,734.04	131.0	398.92	1,232.20	1,772.30
Harriston R.P.D.—Minto and Howick twps.....	658.82	2.3	7.00	40.10	32.37
Harrow R.P.D.—Colchester S., Malden, Colchester N. and Gosfield S. twps....	83,510.30	302.3	920.57	2,095.51	3,726.84
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps.....	75,852.87	308.8	940.36	2,276.78	3,600.05
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps.....	46,663.64	226.9	690.95	1,014.21	2,027.28
Keswick R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps.....	77,599.46	286.0	870.93	5,055.57	3,644.74
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.....	128,004.44	464.3	1,413.88	3,300.30	5,804.02
Listowel R.P.D.—Wallace, Elma and Grey twps.....	21,521.90	81.8	249.10	756.01	991.87
London R.P.D.—Westminster, Delaware, London and Nissouri W. twps...	276,545.91	1,247.1	3,797.66	7,289.96	13,126.25
Lucan R.P.D.—Stephen, London, McGillivray, and Biddulph twps.....	13,736.53	55.6	169.31	425.61	647.72
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps.....	35,016.43	126.6	385.52	1,073.33	1,638.57
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps.....	68,118.64	263.4	802.10	1,773.19	3,217.47
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps.....	40,378.11	123.9	377.30	1,222.04	1,887.56
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps.....	24,006.75	102.7	312.74	764.68	1,139.24
Milverton R.P.D.—Mornington and Elma twps.....	10,690.83	41.3	125.77	351.86	500.78
Mitchell R.P.D.—Hibbert, Fullarton, Downie, Ellice, Logan and Elma twps.	39,323.94	143.8	437.89	1,109.28	1,848.61
Newmarket R.P.D.—Gwillimbury E., King, Whitchurch and Scott twps....	53,927.12	211.9	645.28	1,537.45	2,538.49
Niagara R.P.D.—Niagara twp.....	91,485.00	556.3	1,694.04	3,230.28	4,461.12

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
38.91	49.76	36.07	.5.94	434.83	434.83	see page	179
238.32	432.32	267.11	71.15	4,015.82	4,015.82	"	"
193.14	281.27	192.91	41.02	2,452.53	2,452.53	"	"
185.23	225.90	171.29	28.78	1,965.47	1,965.47	"	"
685.34	1,372.52	827.09	259.00	10,498.58	10,498.58	"	"
452.57	811.15	505.90	134.66	6,984.63	6,984.63	"	"
410.66	549.40	393.74	76.33	4,833.55	4,833.55	"	"
7.51	10.06	7.19	1.34	105.57	105.57	"	"
801.27	1,229.38	824.47	176.14	9,774.18	9,774.18	"	"
767.49	1,205.13	791.85	179.94	9,761.60	9,761.60	"	"
370.29	726.06	436.54	132.21	5,397.54	5,397.54	"	"
763.26	1,120.75	810.95	166.65	12,432.85	12,432.85	"	"
1,280.93	1,923.39	1,301.59	270.54	15,294.65	15,294.65	"	"
215.22	330.66	219.63	47.66	2,810.15	2,810.15	"	"
2,645.55	4,590.58	2,881.64	726.67	35,058.31	35,058.31	"	"
139.18	216.60	143.37	32.40	1,774.19	1,774.19	"	"
377.75	516.71	367.10	73.77	4,432.75	4,432.75	"	"
655.81	1,018.26	713.77	153.48	8,334.08	8,334.08	"	"
452.62	586.78	422.46	72.19	5,020.95	5,020.95	see page	181
236.74	374.33	250.51	59.84	3,138.08	3,138.08	"	"
108.63	169.20	110.75	24.06	1,391.05	1,391.05	"	"
414.73	630.68	411.23	83.79	4,936.21	4,936.21	"	"
509.75	820.01	561.69	123.47	6,736.14	6,736.14	"	"
750.62	1,609.35	953.76	324.16	13,023.33	13,023.33	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps.....	46,792.73	198.9	605.69	1,534.47	2,183.15
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps.....	13,455.05	39.9	121.50	444.52	622.98
Palmerston , R.P.D.—Maryborough, Peel, Arthur, Wallace and Minto twps.	2,734.38	9.8	29.84	103.62	126.23
Petrolia R.P.D.—Sarnia, Plympton, Enniskillen and Moore twps.....	5,949.27	20.4	62.12	213.56	279.00
Preston R.P.D.—Waterloo, Puslinch, Dumfries N. and Woolwich twps.....	155,194.88	703.7	2,142.90	4,216.76	7,114.26
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps.....	82,173.03	255.7	778.66	2,911.51	3,815.34
St. Jacobs R.P.D.—Wellesley, Woolwich and Waterloo twps.....	42,816.29	180.9	550.88	1,032.59	1,999.27
St. Marys R.P.D.—Fullarton, Usborne, Blanshard and Downie twps.....	48,686.12	166.4	506.72	1,423.42	2,286.88
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster, and Dunwich twps.....	90,167.91	394.5	1,201.33	2,399.78	4,253.75
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps.....	146,528.87	587.9	1,790.27	3,190.24	6,876.47
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps....	224,173.54	936.1	2,850.60	5,405.93	10,448.32
Sarnia R.P.D.—Sarnia, Moore and Plympton twps.....	118,824.03	445.8	1,357.55	5,075.89	5,576.28
Scarboro R.P.D.—Scarboro, Pickering and York North twps.....	48,474.41	198.2	603.56	966.72	2,295.93
Seaforth R.P.D.—Tuckersmith, McKillop and Hibbert twps.....	9,619.99	34.5	105.06	261.76	451.90
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham and Townsend twps...	28,031.24	126.5	385.22	942.00	1,331.46
Stamford R.P.D.—Thorold twp.....	24,911.07	165.6	504.28	1,355.47	1,226.33
Stratford R.P.D.—Ellice, Downie, Easthope N. and Easthope S. twps.....	32,999.43	153.3	466.83	952.50	1,563.46
Strathroy R.P.D.—Adelaide, Metcalfe, Ekfrid and Caradoc twps.....	8,414.28	35.1	106.89	419.94	398.85
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps....	126,823.86	531.2	1,617.61	3,890.08	5,917.87
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra twps.....	31,336.87	125.3	381.56	1,090.97	1,478.66
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.....	19,541.47	72.6	221.09	731.17	903.32
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.....	33,523.39	121.7	370.60	1,024.36	1,577.89

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
463.66	742.04	488.30	115.90	6,133.21	6,133.21	see page	181
151.70	203.46	140.78	23.25	1,708.19	1,708.19	"	"
28.13	40.92	27.93	5.71	362.38	362.38	"	"
63.77	91.34	62.31	11.89	783.99	783.99	"	"
1,400.96	2,538.44	1,558.86	410.05	19,382.23	19,382.23	"	"
917.26	1,189.26	860.03	148.99	10,621.05	10,621.05	"	"
418.94	695.47	442.52	105.41	5,245.08	5,245.08	"	"
523.36	792.43	509.36	96.96	6,139.13	6,139.13	"	"
876.28	1,505.47	939.23	229.87	11,405.71	11,405.71	"	"
1,507.34	2,289.99	1,531.42	342.56	17,528.29	17,528.29	"	"
2,136.48	3,613.07	2,311.07	545.45	27,310.92	27,310.92	"	"
1,222.36	1,885.98	1,241.27	259.76	16,619.09	16,619.09	"	"
449.42	751.28	506.16	115.49	5,688.56	5,688.56	"	"
102.28	147.09	100.61	20.11	1,188.81	1,188.81	"	"
269.34	456.02	292.26	73.71	3,750.01	3,750.01	"	"
188.61	452.41	259.46	96.49	4,083.05	4,083.05	"	"
308.31	556.23	344.45	89.33	4,281.11	4,281.11	"	"
84.07	130.00	87.86	20.45	1,248.06	1,248.06	"	"
1,222.42	2,033.62	1,294.26	309.53	16,285.39	16,285.39	see page	183
317.45	503.02	327.49	73.01	4,172.16	4,172.16	"	"
197.32	301.22	199.89	42.30	2,596.31	2,596.31	"	"
351.42	516.09	350.19	70.91	4,261.46	4,261.46	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton and Norwich N. twps.....	67,016.65	254.5	775.00	2,321.00	3,118.56
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	45,244.67	160.1	487.54	1,178.25	2,039.14
Walsingham R.P.D.—Walsingham N., Walsingham S., Charlotteville, Windham and Middleton twps.....	29,226.00	57.3	174.49	809.55	1,335.63
Walton R.P.D. — Wawanosh W., Wawanosh E., Morris, Grey, Hullett and McKillop twps.....	22,664.86	58.2	177.23	644.49	1,046.37
Waterdown R.P.D. — Flamboro E., Flamboro W. and Nelson twps.....	93,008.47	412.6	1,256.45	2,423.36	4,430.11
Waterford R.P.D.—Windham and Townsend twps.....	23,990.16	101.8	310.00	736.65	1,134.12
Watford R.P.D. — Warwick, Adelaide and Metcalfe twps.	1,522.75	4.9	14.92	45.23	71.66
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.....	195,973.24	1,016.2	3,094.53	8,060.34	9,202.41
Woodbridge R.P.D. — York North, Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King and Chingauousy twps.....	132,741.40	498.8	1,518.95	3,612.04	6,120.18
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps.....	91,535.65	432.0	1,315.52	2,818.61	4,340.70
Totals—Municipalities....	114,899,201.67	558,276.7	1,700,060.38	2,731,913.63	5,460,418.26
Totals—Rural Power Districts.....	4,734,622.68	19,675.9	59,916.93	151,679.89	221,783.47
Totals—Companies.....	48,995,980.27	289,854.3	884,938.76	1,301,776.85	2,387,364.99
	168,629,804.62				
Non-operating capital.....	2,623,160.88				
Grand total.....	171,252,965.50	867,806.9	2,644,916.07	4,185,370.37	8,069,566.72

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
700.48	1,024.01	700.08	148.29	8,787.42	8,787.42	see page	183
458.79	679.54	457.39	93.29	5,393.94	5,393.94	"	"
369.94	355.52	306.43	33.39	3,384.95	3,384.95	"	"
269.09	302.14	237.50	33.91	2,710.73	2,710.73	"	"
910.95	1,499.66	971.64	240.42	11,732.59	11,732.59	"	"
237.59	393.02	249.81	59.31	3,120.50	3,120.50	"	"
16.89	21.90	15.96	2.85	189.41	189.41	"	"
1,734.86	3,204.08	2,002.09	592.13	27,890.44	27,890.44	"	"
1,348.61	2,001.47	1,362.37	290.64	16,254.26	16,254.26	"	"
855.74	1,554.45	954.38	251.72	12,091.12	12,091.12	"	"
999,663.26	1,882,693.81	1,196,757.16	325,300.44	14,296,806.94	15,123,855.95	839,016.71	11,967.70
46,495.62	74,739.46	49,009.06	11,464.86	615,039.29	615,087.29		
392,835.83	852,619.88	504,454.79	(336,765.30)	5,987,225.80	5,987,225.80		
1,438,994.71	2,810,053.15	1,750,221.01	.....	20,899,122.03	21,726,171.04	.....	.....

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Acton R.P.D.—Esquesing twp.....	2,860.15	1,430.07	1,430.08	65.19
Ailsa Craig R.P.D.—Lobo twp.....	1,029.99	514.99	515.00	3.55
Alvinston R.P.D.—Brooke twp.....	2,941.70	1,470.85	1,470.85	105.67
Amherstburg R.P.D.—Anderdon, Malden, Colchester N., and Colchester S. twps.....	104,998.74	52,413.87	52,584.87	17,010.79
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N., and Dereham twps.....	*162,120.18	79,803.71	82,316.47	6,577.90
Ayr R.P.D.—Dumfries N., Dumfries S., and Blenheim twps.....	*23,513.43	11,719.36	11,794.07	691.61
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo, and Blenheim twps.....	*130,151.15	64,860.79	65,290.36	6,572.51
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsboro, Clinton, Louth, Pelham, and Wainfleet twps.....	262,776.24	131,132.90	131,643.34	25,853.79
Belle River R.P.D.—Maidstone and Rochester twps.....	76,693.14	38,346.57	38,346.57	7,481.67
Blenheim R.P.D.—Raleigh and Harwich twps..	*86,245.98	42,184.49	44,061.49	3,763.76
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps.....	*241,783.37	120,105.92	121,677.45	18,301.52
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps.....	*49,504.12	24,378.52	25,125.60	4,504.45
Brampton R.P.D.—Chinguacousy and Toronto twps.....	72,399.06	36,199.53	36,199.53	3,105.48
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps....	*158,699.99	78,016.74	80,683.25	10,992.83
Brigden R.P.D.—Moore and Sombra twps.....	45,312.09	22,656.05	22,656.04	1,735.47
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps.....	62,576.20	31,288.10	31,288.10	2,739.80
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caistor, Grimsby S., and Barton twps.....	122,164.78	61,082.39	61,082.39	4,650.16
Chatham R.P.D.—Dover E., Chatham, Raleigh, and Harwich twps.....	204,624.43	102,312.22	102,312.21	11,621.56
Chippawa R.P.D.—Willoughby and Bertie twps.	38,106.77	19,053.38	19,053.39	2,542.45
Clinton R.P.D.—Goderich, Stanley, Tucker-smith and Ray twps.....	87,014.01	42,788.66	44,225.35	3,464.94
Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps....	*191,168.42	94,184.46	96,983.96	6,425.34
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.....	*183,798.91	90,939.29	92,859.62	9,557.49
Dresden R.P.D.—Camden and Chatham Gore twps.....	24,631.91	12,315.95	12,315.96	349.92
Drumbo R.P.D.—Blenheim, Burford and Blandford twps.....	*72,740.20	35,381.82	37,358.38	3,827.72
Dundas R.P.D.—Flamboro W., Beverly, Ancaster, Flamboro E., and Nelson twps.....	166,566.07	83,092.26	83,473.81	9,678.27

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
99.77	63.34	57.10	28.55	15.03	328.98	313.60	.....	15.38
2.98	1.91	1.72	0.86	0.45	11.47	14.80	3.33	.....
12.22	26.57	23.95	11.98	6.31	186.70	267.07	80.37	.....
5,656.86	2,252.07	2,026.82	1,013.41	534.46	28,494.41	33,910.77	5,416.36	.....
5,902.78	3,195.20	2,831.40	1,415.70	758.29	20,681.27	23,594.62	2,913.35	.....
471.69	454.81	408.52	204.26	107.94	2,338.83	2,561.61	222.78	.....
6,401.31	2,516.81	2,260.32	1,130.16	597.29	19,478.40	17,103.80	.....	2,374.60
9,412.16	5,258.61	4,730.43	2,365.21	1,247.98	48,868.18	57,666.65	8,798.47	.....
3,316.00	1,610.08	1,451.49	725.74	382.10	14,967.08	20,172.50	5,205.42	.....
4,557.66	1,818.19	1,601.74	800.87	431.49	12,973.71	14,736.77	1,763.06	.....
11,763.03	4,702.59	4,207.96	2,103.98	1,116.02	42,195.10	48,979.35	6,784.25	.....
2,169.81	1,016.79	902.83	451.42	241.31	9,286.61	10,216.05	929.44	.....
2,968.43	1,575.22	1,420.06	710.03	373.83	10,153.05	9,233.45	.....	919.60
4,396.52	3,301.29	2,922.78	1,461.39	783.46	23,858.27	24,431.67	573.40	.....
1,005.87	811.30	731.39	365.69	192.54	4,842.26	4,204.04	.....	638.22
1,418.71	876.89	790.52	395.30	208.10	6,429.32	7,365.93	936.61	.....
2,894.50	2,151.90	1,939.94	969.97	510.69	13,117.16	14,117.86	1,000.70	.....
8,482.21	4,250.50	3,831.83	1,915.91	1,008.73	31,110.74	35,537.93	4,427.19	.....
1,561.30	840.26	757.49	378.75	199.41	6,279.66	6,846.45	566.79	.....
3,086.55	1,807.47	1,600.70	800.35	428.95	11,188.96	10,567.52	.....	621.44
7,353.74	3,831.87	3,398.44	1,699.22	909.38	23,617.99	25,692.57	2,074.58	.....
6,670.38	3,965.28	3,536.29	1,768.14	941.04	26,438.62	27,613.19	1,174.57	.....
311.82	258.90	233.40	116.70	61.44	1,332.18	1,192.88	.....	139.30
2,055.38	1,431.95	1,251.37	625.69	339.83	9,531.94	8,992.67	.....	539.27
4,106.58	3,442.66	3,097.12	1,548.57	817.02	22,690.22	27,629.88	4,939.66	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Dunnville R.P.D.—Moulton twp.....	14,011.56	7,005.78	7,005.78	127.18
Dutton R.P.D.—Dunwich and Aldboro twps..	46,758.56	23,379.28	23,379.28	3,274.42
Elmira R.P.D.—Woolwich, Peel and Pilkington twps.....	20,230.57	10,115.29	10,115.28	850.07
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps.....	39,227.36	19,613.68	19,613.68	2,459.25
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S., and Mersea twps.....	*118,571.00	58,420.32	60,150.68	6,021.20
Exeter R.P.D.—Hay, Stephen, Usborne, Tucker-smith, Biddulph and Bosanquet twps.....	*115,772.55	57,331.57	58,440.98	7,776.74
Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W., and Adelaide twps.....	*32,907.43	16,149.05	16,758.38	434.83
Galt R.P.D.—Dumfries N., Dumfries S., and Beverly twps.....	56,313.50	28,156.75	28,156.75	4,015.82
Georgetown R.P.D.—Esquesing and Chingua-cously twps.....	64,269.67	32,134.84	32,134.83	2,452.53
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps.....	12,703.23	6,351.62	6,351.61	1,965.47
Grantham R.P.D.—Grantham and Niagara twps.....	97,386.18	48,693.09	48,693.09	10,498.58
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps.....	134,479.54	67,206.77	67,272.77	6,984.63
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N., and Oneida twps.....	*44,717.89	21,460.59	23,257.30	4,833.55
Harriston R.P.D.—Minto and Howick twps..	*16,291.17	7,996.01	8,295.16	105.57
Harrow R.P.D.—Colchester S., Malden, Colchester N., and Gosfield S. twps.....	117,178.49	58,589.25	58,589.24	9,774.18
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W., and Oxford W. twps.....	237,900.87	118,950.43	118,950.44	9,761.60
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps.....	84,156.57	42,078.29	42,078.28	5,397.54
Keswick R.P.D.—Georgina, Gwillimbury N., and Gwillimbury E. twps.....	*85,443.74	42,035.45	43,408.29	12,432.85
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.....	*242,905.78	120,209.39	122,696.39	15,294.65
Listowel R.P.D.—Wallace, Elma and Grey twps.	63,152.98	31,576.49	31,576.49	2,810.15
London R.P.D.—Westminster, Delaware, London and Nissouri W. twps.....	*389,844.84	194,837.26	195,007.58	35,058.31
Lucan R.P.D.—Stephen, London, McGillivray and Biddulph twps.....	*54,357.67	27,043.43	27,314.24	1,774.19
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps.....	76,042.84	38,021.42	38,021.42	4,432.75
Markham R.P.D.—Markham, Scarboro, Pickering and Hitchchurch twps.....	*172,798.07	85,519.18	87,278.89	8,334.08

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and adminis-	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
344.81	313.84	282.93	141.46	74.48	1,284.70	469.09	.....	815.61
1,965.79	997.35	899.11	449.56	236.69	7,822.92	8,267.56	444.64	.....
759.85	265.01	238.91	119.45	62.89	2,296.18	1,929.79	.....	366.39
2,246.77	613.40	552.98	276.49	145.57	6,294.46	5,641.04	.....	653.42
4,056.43	2,431.40	2,157.29	1,078.65	577.02	16,321.99	20,942.54	4,620.55	.....
4,954.12	2,340.64	2,087.90	1,043.95	555.48	18,758.83	22,109.50	3,350.67	.....
613.84	356.11	308.85	154.42	84.51	1,952.56	2,141.10	188.54	.....
3,526.67	1,134.47	1,022.73	511.36	269.23	10,480.28	9,646.30	.....	833.98
1,830.51	1,339.80	1,207.83	603.92	317.96	7,752.55	8,269.49	516.94	.....
790.78	215.30	194.09	97.05	51.09	3,313.78	3,321.12	7.34	.....
4,396.45	2,052.88	1,850.67	925.34	487.19	20,211.11	20,100.72	.....	110.39
6,256.00	2,460.48	2,217.35	1,108.68	583.93	19,611.07	18,800.38	.....	810.69
2,947.45	703.60	619.17	309.58	166.97	9,580.32	10,300.83	720.51	.....
431.37	113.85	96.65	48.33	27.02	822.79	790.98	.....	31.81
5,721.68	2,295.94	2,069.79	1,034.90	544.87	21,441.36	24,644.44	3,203.08	.....
6,705.91	5,021.58	4,526.96	2,263.48	1,191.72	29,471.25	29,509.92	38.67	.....
3,354.32	1,593.57	1,436.60	718.30	378.19	12,878.52	14,545.41	1,666.89	.....
12,207.88	1,709.23	1,513.42	756.71	405.63	29,025.72	23,052.86	.....	5,972.86
10,329.92	4,980.81	4,444.52	2,222.25	1,182.04	38,454.19	47,879.79	9,425.60	.....
2,955.14	1,195.53	1,077.77	538.89	283.72	8,861.20	8,733.28	.....	127.92
20,234.59	7,900.00	7,118.45	3,559.22	1,874.83	75,745.40	77,355.27	1,609.87	.....
1,302.31	1,111.41	996.52	498.26	263.76	5,946.45	5,904.25	.....	42.20
2,003.64	1,649.41	1,486.94	743.47	391.43	10,707.64	10,944.80	237.16	.....
4,334.93	3,530.22	3,147.40	1,573.70	837.79	21,758.12	27,784.89	6,026.77	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Merlin R.P.D. —Romney, Tilbury E. and Raleigh twps.....	*91,375.34	45,407.51	45,967.83	5,020.95
Milton R.P.D. —Nassagaweya, Esquesing, Trafalgar and Nelson twps.....	65,060.47	32,530.23	32,530.24	3,138.08
Milverton R.P.D. —Morrington and Elma twps.	30,668.16	15,334.08	15,334.08	1,391.05
Mitchell R.P.D. —Hibbert, Fullarton, Downie, Ellice, Logan and Elma twps.....	82,505.58	41,252.79	41,252.79	4,936.21
Newmarket R.P.D. —Gwillimbury E., King, Whitchurch and Scott twps.....	*65,761.60	32,444.26	33,317.34	6,736.14
Niagara R.P.D. —Niagara twp.....	*110,050.33	54,665.79	55,384.54	13,023.33
Norwich R.P.D. —Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps.....	*135,496.82	66,214.16	69,282.66	6,133.21
Oil Springs R.P.D. —Enniskillen, Dawn and Brooke twps.....	22,339.56	11,169.78	11,169.78	1,708.19
Palmerston R.P.D. —Maryborough, Peel, Arthur, Wallace and Minto twps.....	*41,825.60	20,679.34	21,146.26	362.38
Petrolia R.P.D. —Sarnia, Plympton, Enniskillen and Moore twps.....	*24,159.79	11,637.20	12,522.59	783.99
Preston R.P.D. —Waterloo, Puslinch, Dumfries N. and Woolwich twps.....	*258,471.77	128,997.75	129,474.02	19,382.23
Ridgetown R.P.D. —Howard, Orford, Harwich, Aldborough and Rondeau Park twps.....	182,527.71	91,263.85	91,263.86	10,621.05
St. Jacobs R.P.D. —Wellesley, Woolwich and Waterloo twps.....	82,818.81	41,358.62	41,460.19	5,245.08
St. Marys R.P.D. —Fullarton, Usborne, Blanshard and Downie twps.....	135,234.33	67,617.17	67,617.16	6,139.13
St. Thomas R.P.D. —Southwold, Yarmouth, Westminster and Dunwich twps.....	240,154.08	119,769.79	120,384.29	11,405.71
Saltfleet R.P.D. —Saltfleet, Barton, Binbrook and Grimsby N. twps.....	228,678.23	114,339.12	114,339.11	17,528.29
Sandwich R.P.D. —Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps.....	311,114.72	155,557.36	155,557.36	27,310.92
Sarnia R.P.D. —Sarnia, Moore and Plympton twps.....	*189,083.32	91,955.01	97,128.31	16,619.09
Scarboro R.P.D. —Scarboro, Pickering and York N. twps.....	141,467.47	70,733.74	70,733.73	5,688.56
Seaforth R.P.D. —Tuckersmith, McKillop and Hibbert twps.....	16,866.84	7,842.06	9,024.78	1,188.81
Simcoe R.P.D. —Woodhouse, Charlotteville, Windham and Townsend twps.....	*66,683.65	32,192.99	34,490.66	3,750.01
Stamford R.P.D. —Thorold twp.....	30,362.22	15,181.11	15,181.11	4,083.05
Stratford R.P.D. —Ellice, Downie, Easthope N., and Easthope S. twps.....	54,568.25	27,026.19	27,542.06	4,281.11
Strathroy R.P.D. —Adelaide, Metcalfe, Ekfrid and Caradoc twps.....	77,544.59	38,595.52	38,949.07	1,248.06

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930)

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,601.57	1,672.53	1,496.59	748.29	396.92	12,936.85	11,592.51	.....	1,344.34
1,816.54	1,362.52	1,228.31	614.16	323.35	8,482.96	10,591.20	2,108.24	.....
1,803.47	614.17	553.67	276.84	145.75	4,784.95	3,656.54	.....	1,128.41
3,311.59	1,623.00	1,463.14	731.57	385.17	12,450.68	12,722.67	271.99	.....
4,617.93	1,244.40	1,104.36	552.18	295.32	14,550.33	14,676.62	126.29	.....
4,340.48	2,350.90	2,104.96	1,052.48	557.92	23,430.07	26,508.69	3,078.62	.....
7,136.28	2,860.90	2,517.73	1,258.86	678.95	20,585.93	22,143.37	1,557.44	.....
1,373.62	436.57	393.57	196.78	103.61	4,212.34	4,213.27	0.93	.....
509.52	118.04	97.07	48.54	28.01	1,163.56	804.75	.....	358.81
794.70	418.09	359.20	179.59	99.22	2,634.79	2,577.93	.....	56.86
11,775.33	5,222.98	4,698.99	2,349.49	1,239.51	44,668.53	44,751.62	83.09	.....
6,859.10	3,744.24	3,375.43	1,687.72	888.58	27,176.12	26,625.28	.....	550.84
4,343.35	1,357.03	1,223.03	611.51	322.05	13,102.05	12,942.98	.....	159.07
4,201.18	2,684.61	2,420.18	1,210.09	637.11	17,292.30	14,708.10	.....	2,584.20
10,047.21	4,736.16	4,266.61	2,133.27	1,123.99	33,712.95	37,967.67	4,254.72	.....
11,227.53	4,817.26	4,342.76	2,171.38	1,143.23	41,230.45	42,639.05	1,408.60	.....
25,850.57	6,586.39	5,937.63	2,968.80	1,563.08	70,217.39	76,479.04	6,261.65	.....
10,989.32	4,088.86	3,582.64	1,791.32	970.38	38,041.61	40,870.06	2,828.45	.....
3,275.64	2,643.23	2,382.87	1,191.44	627.29	15,809.03	21,061.92	5,252.89	.....
1,339.42	393.14	330.77	165.38	93.30	3,510.82	3,765.63	254.81	.....
3,528.22	1,292.80	1,119.50	559.74	306.80	10,557.07	10,576.45	19.38	.....
3,254.22	642.42	579.14	289.57	152.46	9,000.86	10,423.45	1,422.59	.....
3,702.49	1,174.06	1,048.10	524.05	278.63	11,008.44	11,240.97	232.53	.....
1,294.01	706.42	629.76	314.89	167.64	4,360.78	5,057.61	696.83	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Streetsville R.P.D.—Toronto, Trafalgar, Esqueusing and Chinguacousy twps.....	153,857.52	76,928.76	76,928.76	16,285.39
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra twps.....	104,894.93	52,447.46	52,447.47	4,172.16
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.....	47,692.26	23,614.22	24,078.04	2,596.31
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.....	*51,478.86	25,505.97	25,972.89	4,261.46
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton and Norwich N. twps....	167,552.13	83,776.07	83,776.06	8,787.42
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.....	112,178.93	55,894.95	56,283.98	5,393.94
Walsingham R.P.D.—Walsingham N., Walsingham S., Charlotteville, Windham and Middleton twps.....	*73,506.41	36,376.91	37,129.50	3,384.95
Walton R.P.D.—Wawanosh W., Wawanosh E., Mooris, Grey, Hullett and McKillop twps.....	*44,751.44	20,924.02	23,827.42	2,710.73
Waterdown R.P.D.—Flamboro E., Flamboro W. and Nelson twps.....	*82,387.28	40,780.68	41,606.60	11,732.59
Waterford R.P.D.—Windham and Townsend twps.....	65,194.52	32,597.26	32,597.26	3,120.50
Watford R.P.D.—Warwick, Adelaide and Metcalfe twps.....	22,839.11	11,419.55	11,419.56	189.41
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.....	*469,349.45	233,956.39	235,393.06	27,890.44
Woodbridge R.P.D.—York North, Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King and Chinguacousy twps.....	*301,110.13	149,875.66	151,234.47	16,254.26
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps.....	206,325.57	103,162.79	103,162.78	12,091.12
Non-operating capital.....	9,499,780.87		4,778,206.64	
	105,888.18		105,888.18	
Totals.....	9,605,669.05	4,721,574.23	4,884,094.82	615,089.29

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,853.35	3,260.24	2,939.11	1,469.55	773.72	30,581.36	36,059.20	5,477.84	.....
4,634.39	1,845.50	1,663.72	831.86	437.97	13,585.60	12,301.05	.....	1,284.55
1,886.03	1,002.34	894.34	447.17	237.87	7,064.06	7,786.82	722.76	.....
1,048.58	1,046.67	934.32	467.16	248.40	8,006.59	9,005.54	998.95	.....
7,418.42	3,502.64	3,157.63	1,578.82	831.25	25,276.18	24,877.09	.....	399.09
3,443.96	2,237.96	2,009.74	1,004.87	531.12	14,621.59	17,842.36	3,220.77	.....
2,342.76	1,019.47	904.00	452.01	241.94	8,345.13	9,291.11	945.98	.....
2,636.34	1,053.00	891.38	445.70	249.92	7,987.07	8,492.05	504.98	.....
2,692.19	1,624.04	1,447.56	723.78	385.42	18,605.58	25,552.62	6,947.04	.....
2,543.61	1,221.14	1,100.86	550.43	289.80	8,826.34	8,205.38	.....	620.96
382.72	282.30	254.49	127.25	67.00	1,303.17	1,081.97	.....	221.20
25,385.62	8,073.79	7,258.12	3,629.06	1,916.07	74,153.10	84,468.48	10,315.38	.....
9,349.64	6,178.64	5,543.28	2,771.63	1,466.31	41,563.76	45,754.69	4,190.93	.....
7,459.45	4,036.12	3,638.56	1,819.28	957.85	30,002.38	32,653.48	2,651.10	.....
408,419.77	186,962.86	167,463.56	83,731.78	44,370.01	1,506,037.27	1,628,018.20	145,702.34	23,721.41

Net Credit..... \$121,980.93

power districts.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan., 1913	1,485.32			1,485.32
Agincourt.....	Nov., 1922	423.49			423.49
Ailsa Craig.....	Jan., 1916	157.03			157.03
Alvinston.....	April, 1922		51.22	51.22	
Amherstburg.....	Nov., 1925	2,873.47			2,873.47
Ancaster twp.....	May, 1923	989.44			989.44
Arkona.....	Dec., 1926	498.57			498.57
Aylmer.....	Mar., 1918	2,842.86			2,842.86
Ayr.....	Jan., 1915	292.44			292.44
Baden.....	May, 1912	593.89			593.89
Barton twp.....	May, 1924	411.73			411.73
Beachville.....	Aug., 1912	1,342.25			1,342.25
Belle River.....	Dec., 1922	515.11			515.11
Blenheim.....	Nov., 1915	1,223.45			1,223.45
Blyth.....	July, 1924	793.16			793.16
Bolton.....	Feb., 1915	528.88			528.88
Bothwell.....	Sept., 1915	616.83			616.83
Brampton.....	Nov., 1911	9,188.91			9,188.91
Brantford.....	Feb., 1914	16,655.10			16,655.10
Brantford twp.....	May, 1924		189.50	189.50	
Bridgeport.....	Mar., 1928		62.91	62.91	
Brigden.....	Jan., 1918	970.81			970.81
Brussels.....	July, 1924	462.97			462.97
Burford.....	June, 1915	668.40			668.40
Burgessville.....	Nov., 1916	529.44			529.44
Caledonia.....	Oct., 1912	620.45			620.45
Campbellville.....	Jan., 1925	320.28			320.28
Cayuga.....	Nov., 1924	662.92			662.92
Chatham.....	Feb., 1915	12,541.24			12,541.24
Chippawa.....	Sept., 1919	304.85			304.85
Clifford.....	May, 1924	219.44			219.44
Clinton.....	Mar., 1914	453.69			453.69
Comber.....	May, 1915	415.77			415.77
Cottam.....	Nov., 1926	299.41			299.41
Courtright.....	Dec., 1923	524.18			524.18
Dashwood.....	Sept., 1917	268.84			268.84
Delaware.....	Mar., 1915	245.30			245.30
Dorchester.....	Dec., 1914	320.25			320.25
Drayton.....	Mar., 1918	42.37			42.37
Dresden.....	April, 1915		595.28	595.28	
Drumbo.....	Dec., 1914	232.95			232.95
Dublin.....	Oct., 1917		77.76		
Dundas.....	Jan., 1911	3,653.16			3,653.16
Dunnville.....	June, 1918	4,519.34			4,519.34
Dutton.....	Sept., 1915	347.99			347.99

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24.09		613.22		637.31	
7.80		720.87		728.67	
2.89		208.83		211.72	
	0.94	135.44		134.50	
49.78		3,014.96		3,064.74	
21.60		132.05		153.65	
9.81		233.77		243.58	
49.83		1,975.08		2,024.91	
4.94			31.08		26.14
9.83		315.02		324.85	
7.00		152.69		159.69	
25.85		1,260.55		1,286.40	
10.20		437.49		447.69	
23.12		564.66		587.78	
15.81		532.27		548.08	
9.95		311.77		321.72	
12.65		107.01		119.66	
162.57		8,044.79		8,207.36	
306.64		11,496.94		11,803.58	
	3.20		1,270.00		1,273.20
	1.05		334.50		335.55
14.21		446.36		460.57	
7.34		375.10		382.44	
13.37		862.14		875.51	
10.99		73.06		84.05	
10.00		616.39		626.39	
5.58		738.77		744.35	
8.79		879.60		888.39	
209.89		6,610.04		6,819.93	
5.62			64.22		58.60
4.04		15.47		19.51	
8.36		862.39		870.75	
7.22		122.93		130.15	
5.85		292.43		298.28	
9.09		310.54		319.63	
5.06		246.17		251.23	
4.99		126.75		131.74	
6.12		159.36		165.48	
.80		237.99		238.79	
	23.68	496.20		472.52	
4.31			239.92		235.61
	3.11		321.08		401.95
56.45		3,081.94		3,138.39	
81.13		1,600.23		1,681.36	
5.80		777.45		783.25	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
East Windsor.....	Nov., 1922	17,004.88			21,477.72
Elmira.....	Nov., 1913	1,992.41			1,992.41
Elora.....	Nov., 1914	1,102.23			1,102.23
Embro.....	Jan., 1915	470.73			470.73
Erieau.....	July, 1924	255.86			255.86
Erie Beach.....	July, 1925		75.94	75.94	
Essex.....	Nov., 1923	1,250.68			1,250.68
Etobicoke twp.....	Aug., 1917	8,748.61			8,748.61
Exeter.....	June, 1916	809.41			809.41
Fergus.....	Nov., 1914	1,964.55			1,964.55
Fonthill.....	June, 1926	388.77			388.77
Forest.....	Mar., 1917	1,216.34			1,216.34
Galt.....	May, 1911	17,217.65			17,217.65
Georgetown.....	Sept., 1913	1,273.37			1,273.37
Glencoe.....	Aug., 1920	1,347.59			1,347.59
Goderich.....	Feb., 1914	1,354.86			1,354.86
Granton.....	July, 1916	300.86			300.86
Guelph.....	Dec., 1910	17,040.87			17,040.87
Hagersville.....	Sept., 1913	3,142.25			3,142.25
Hamilton.....	Feb., 1911	80,079.18			80,079.18
Harriston.....	July, 1916	1,214.60			1,214.60
Harrow.....	Nov., 1923	1,321.84			1,321.84
Hensall.....	Jan., 1917	825.39			825.39
Hespeler.....	Feb., 1911	3,947.04			3,947.04
Highgate.....	Dec., 1916	347.09			347.09
Humberstone.....	Oct., 1924	413.39			413.39
Ingersoll.....	May, 1911	5,527.64			5,527.64
Jarvis.....	Feb., 1924	479.36			479.36
Kingsville.....	Nov., 1923	2,165.39			2,165.39
Kitchener.....	Jan., 1911	24,941.59			24,941.59
Lambeth.....	April, 1915	422.28			422.28
LaSalle.....	Nov., 1925	1,123.86			1,123.86
Leamington.....	Nov., 1923	3,788.39			3,788.39
Listowel.....	June, 1916	2,197.82			2,197.82
London.....	Jan., 1911	53,596.10			53,596.10
London Railway Commission....	Aug., 1914	7,012.53			7,012.53
London twp.....	Jan., 1925	1,350.52			1,350.52
Lucan.....	Feb., 1915	555.51			555.51
Lynden.....	Nov., 1915	291.49			291.49
Markham.....	April, 1920	1,796.10			1,796.10
Merlin.....	Dec., 1922	819.90			819.90
Merritton.....	Nov., 1920	890.61			890.61
Milton.....	April, 1913	3,057.23			3,057.23
Milverton.....	June, 1916	862.45			862.45
Mimico.....	May, 1912	4,911.92			4,911.92

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
307.94		11,716.72		7,551.82	
32.53		1,283.47		1,316.00	
17.51			879.00		861.49
8.36		696.04		704.40	
3.50			38.93		35.43
	1.52	100.69		99.17	
24.03		921.98		946.01	
152.80		5,881.63		6,034.43	
13.39		1,499.10		1,512.49	
32.72			372.88		340.16
7.40		424.99		432.39	
19.65		831.57		851.22	
288.54		15,487.08		15,775.62	
19.82		218.10		237.92	
22.45		336.90		359.35	
22.42		1,946.11		1,968.53	
4.12		67.30		71.42	
281.99		16,432.32		16,714.31	
61.97		3,301.01		3,362.98	
1,386.59		32,658.78		34,045.37	
16.82		438.17		454.99	
23.28		1,891.72		1,915.00	
16.09		1,105.53		1,121.62	
68.11		3,394.86		3,462.97	
6.39		60.40		66.79	
7.93			487.81		479.88
93.08		4,146.26		4,239.34	
8.83		676.60		685.43	
37.83		2,831.52		2,869.35	
412.73		22,151.19		22,563.92	
5.60		406.72		412.32	
21.76		1,571.30		1,593.06	
64.99		3,452.85		3,517.84	
36.37		921.21		957.58	
886.91		37,852.44		38,739.35	
148.16		281.21		429.37	
23.43		925.89		949.32	
9.09		663.66		672.75	
5.45		250.30		255.75	
36.54		1,445.02		1,481.56	
14.43		1,058.21		1,072.64	
13.86		1,077.66		1,091.52	
41.27		799.92		841.19	
11.44			309.62		298.18
83.45		2,036.57		2,120.02	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mitchell.....	Sept., 1911	1,137.07			1,137.07
Moorefield.....	Mar., 1918	183.58			183.58
Mount Brydges.....	Mar., 1915	509.60			509.60
Newbury.....	Mar., 1921	156.63			156.63
New Hamburg.....	Mar., 1911	851.91			851.91
New Toronto.....	Feb., 1914	16,265.96			16,265.96
Niagara Falls.....	Dec., 1915		3,615.10	3,615.10	
Niagara-on-Lake.....	Aug., 1919	849.96			849.96
Norwich.....	May, 1912	1,095.82			1,095.82
Oil Springs.....	Feb., 1918		379.64	379.64	
Otterville.....	Feb., 1916	524.05			524.05
Palmerston.....	July, 1916	1,269.94			1,269.94
Paris.....	Feb., 1914	2,799.65			2,799.65
Parkhill.....	May, 1920	841.75			841.75
Petrolia.....	May, 1916	4,309.53			4,309.53
Plattsville.....	Dec., 1914	184.38			184.38
Point Edward.....	Nov., 1916	1,470.54			1,470.54
Port Colborne.....	Mar., 1920	1,077.63			1,077.63
Port Credit.....	Aug., 1912	1,163.66			1,163.66
Port Dalhousie.....	Nov., 1912	1,973.63			1,973.63
Port Dover.....	Dec., 1921	638.99			638.99
Port Rowan.....	Nov., 1926		696.97		
Port Stanley.....	April, 1912	1,840.48			1,840.48
Preston.....	Jan., 1911	5,616.46			5,616.46
Princeton.....	Jan., 1915	402.51			402.51
Queenston.....	Mar., 1921		71.89	71.89	
Richmond Hill.....	June, 1925	1,000.96			1,000.96
Ridgetown.....	Dec., 1915	1,524.86			1,524.86
Riverside.....	Nov., 1922	3,186.63			3,186.63
Rockwood.....	Sept., 1913	492.81			492.81
Rodney.....	Feb., 1917		82.75	82.75	
St. Catharines.....	April, 1914	2,062.96			2,062.96
St. Clair Beach.....	Nov., 1922	319.41			319.41
St. George.....	Sept., 1915	890.72			890.72
St. Jacobs.....	Sept., 1917	652.81			652.81
St. Marys.....	May, 1911	2,229.64			2,229.64
St. Thomas.....	April, 1911	13,494.66			13,494.66
Sandwich.....	Feb., 1924	6,027.61			6,027.61
Sarnia.....	Dec., 1916	19,811.25			20,745.02
Scarboro twp.....	Aug., 1918	6,950.55			6,950.55
Seaforth.....	Nov., 1911	1,056.29			1,056.29
Simcoe.....	Aug., 1915	866.64			866.64
Springfield.....	Aug., 1917	458.43			458.43
Stamford twp.....	Nov., 1916	1,467.81			1,467.81
Stouffville.....	Sept., 1923	1,173.47			1,173.47

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
20.99		1,030.56		1,051.55	
3.38		96.61		99.99	
10.03		533.95		543.98	
2.99			67.70		64.71
13.63		264.88		278.51	
276.39		7,611.82		7,888.21	
	103.01		4,805.33		4,908.34
13.96		1,176.01		1,189.97	
21.38		848.93		870.31	
3.23			22.02		18.79
10.48		364.75		375.23	
23.46		279.78		303.24	
46.39		1,432.13		1,478.52	
16.06		802.96		819.02	
74.80		3,004.20		3,079.00	
2.93			92.10		89.17
25.30		2,234.09		2,259.39	
18.66			1,886.43		1,867.77
21.53		1,190.59		1,212.12	
35.52		1,679.44		1,714.96	
11.76		1,102.54		1,114.30	
	27.88	753.68		28.83	
41.99		693.26		735.25	
92.94		4,375.89		4,468.83	
7.64			154.77		147.13
1.64			118.52		116.88
19.48		530.37		549.85	
26.35		713.85		740.20	
53.82		2,866.79		2,920.61	
8.39		178.83		187.22	
	1.78	239.57		237.79	
30.97		234.95		265.92	
5.49		345.65		351.14	
17.92		635.53		653.45	
12.67		671.10		683.77	
36.90		1,149.32		1,186.22	
226.83		11,298.79		11,525.62	
110.97			315.25		204.28
343.74		14,382.63		13,792.60	
129.56		12,013.62		12,143.18	
18.06		1,232.40		1,250.46	
11.49		3,009.30		3,020.79	
8.86		345.28		354.14	
27.02		1,393.53		1,420.55	
23.31		847.38		870.69	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stratford.....	Jan., 1911	18,080.01			18,080.01
Strathroy.....	Dec., 1914	1,566.11			1,566.11
Sutton.....	Aug., 1923	701.98			701.98
Tavistock.....	Nov., 1916	229.60			229.60
Tecumseh.....	Nov., 1922	728.55			728.55
Thamesford.....	Feb., 1914	855.56			855.56
Thamesville.....	Oct., 1915	857.47			857.47
Thedford.....	May, 1922	539.95			539.95
Thorndale.....	Mar., 1914	220.96			220.96
Thorold.....	Jan., 1921	1,513.10			1,513.10
Tilbury.....	April, 1915	1,481.97			1,481.97
Tillsonburg.....	Aug., 1911	2,123.89			2,123.89
Toronto.....	June, 1911	448,107.01			448,107.01
Toronto twp.....	Aug., 1913	4,942.46			4,942.46
Walkerville.....	Nov., 1914	19,219.44			14,915.35
Wallaceburg.....	Feb., 1915	5,074.13			5,074.13
Wardsville.....	June, 1921	243.40			243.40
Waterdown.....	Nov., 1911	781.79			781.79
Waterford.....	April, 1915	594.16			594.16
Waterloo.....	Dec., 1910	4,229.16			4,229.16
Watford.....	Sept., 1917	1,152.69			1,152.69
Welland.....	Sept., 1917	5,645.87			5,645.87
Wellesley.....	Nov., 1916	405.21			405.21
West Lorne.....	Jan., 1917		726.41		
Weston.....	Jan., 1911	9,097.03			9,097.03
Wheatley.....	Feb., 1924	334.48			334.48
Windsor.....	Oct., 1914	55,801.61			55,801.61
Woodbridge.....	Dec., 1914	1,136.37			1,136.37
Woodstock.....	Jan., 1911	12,828.84			12,828.84
Wyoming.....	Nov., 1916	145.14			145.14
York East twp.....	July, 1925	14,520.46			14,520.46
York North twp.....	Nov., 1923	3,717.93			3,717.93
Zurich.....	Sept., 1917	644.65			644.65
Toronto Transportation Comm...	Jan., 1927	6,650.30			6,650.30
North York Radials.....	July, 1930				
RURAL POWER DISTRICT*					
Acton R.P.D.....	Feb., 1928	82.77			
Ailsa Craig R.P.D.....	Sept., 1930				
Alvinston R.P.D.....	June, 1929		6.95		
Amherstburg R.P.D.....	Nov., 1923	12,152.33			
Aylmer R.P.D.....	Nov., 1922	4,214.11			36.00

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
302.74		17,418.49		17,721.23	
24.89		2,804.60		2,829.49	
9.92			104.56		94.64
4.22		351.70		355.92	
12.22		877.79		890.01	
17.05		416.87		433.92	
16.73		354.55		371.28	
10.96		151.10		162.06	
4.24			51.98		47.74
25.04		1,959.99		1,985.03	
27.36		1,585.35		1,612.71	
35.52		1,627.56		1,663.08	
6,973.28		383,374.82		390,348.10	
86.21		3,039.48		3,125.69	
330.68		13,841.70		18,476.47	
94.22		2,795.18		2,889.40	
4.25		129.59		133.84	
15.18		684.85		700.03	
9.83		525.11		534.94	
67.67		2,719.38		2,787.05	
22.69		822.59		845.28	
91.57		4,435.78		4,527.35	
6.71		375.16		381.87	
	29.06	533.28			222.19
174.67		7,512.90		7,687.57	
6.16		18.30		24.46	
941.75		46,970.01		47,911.76	
15.07		1,056.82		1,071.89	
242.71		11,487.87		11,730.58	
2.67		56.59		59.26	
210.50		13,047.63		13,258.13	
63.56		2,735.55		2,799.11	
12.63		451.05		463.68	
110.77		349.43		460.20	
		508.96		508.96	
			15.38	70.70	
3.31		3.33		3.33	
	0.28	80.37		73.14	
486.09		5,416.36		18,054.78	
167.49		2,913.35		7,258.95	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Ayr R.P.D.	July, 1926	1,380.12			
Baden R.P.D.	Sept., 1922	1,744.48			
Beamsville R.P.D.	Jan., 1923	18,138.70			
Belle River R.P.D.	Dec., 1922	15,805.51			
Blenheim R.P.D.	July, 1924	7,167.36			
Bond Lake R.P.D.	Mar., 1924	28,401.82			23.51
Bothwell R.P.D.	Dec., 1923	6,346.74			59.14
Brampton R.P.D.	Nov., 1923	1,937.67			8.57
Brant R.P.D.	Oct., 1922		392.92		
Brigden R.P.D.	Jan., 1927		404.43		
Burford R.P.D.	Dec., 1926	1,184.26			
Caledonia R.P.D.	Oct., 1925		1,422.52		
Chatham R.P.D.	May, 1922	6,184.37			32.43
Chippawa R.P.D.	July, 1922	1,342.09			
Clinton R.P.D.	July, 1928		346.10		
Delaware R.P.D.	Oct., 1922	3,552.86			
Dorchester R.P.D.	Dec., 1921		698.11		
Dresden R.P.D.	May, 1928	227.15			
Drumbo R.P.D.	Aug., 1922	1,206.68			
Dundas R.P.D.	Jan., 1922	6,623.40			
Dunnville R.P.D.	July, 1928	112.32			
Dutton R.P.D.	Feb., 1926	1,559.28			
Elmira R.P.D.	June, 1926	121.68			
Elora R.P.D.	Jan., 1926	1,617.45			
Essex R.P.D.	Nov., 1924	5,412.24			
Exeter R.P.D.	Nov., 1922	6,814.47			
Forest R.P.D.	Nov., 1926	211.97			
Galt R.P.D.	Oct., 1922	3,090.61			
Georgetown R.P.D.	Nov., 1924	3,206.10			
Goderich R.P.D.	June, 1925	600.75			
Grantham R.P.D.	Nov., 1924	1,527.81			
Guelph R.P.D.	Jan., 1925		1,816.72		
Haldimand R.P.D.	Oct., 1925	2,994.06			
Harriston R.P.D.	Dec., 1929				
Harrow R.P.D.	Nov., 1923	4,064.36			
Ingersoll R.P.D.	Oct., 1922	2,587.47			
Jordan R.P.D.	May, 1922	3,401.96			
Keswick R.P.D.	Mar., 1924	1,833.78			
Kingsville R.P.D.	Nov., 1923	15,021.32			
Listowel R.P.D.	Oct., 1926	1,540.35			
London R.P.D.	Nov., 1922	10,987.49			41.72
Lucan R.P.D.	June, 1926		25.89		
Lynden R.P.D.	Feb., 1922	412.22			
Markham R.P.D.	Dec., 1922	6,879.49			
Merlin R.P.D.	Nov., 1928	1,504.96			46.08

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
55.20		222.78		1,658.10	
69.78			2,374.60		560.34
725.55		8,798.47		27,662.72	
632.22		5,205.42		21,643.15	
286.69		1,763.06		9,217.11	
1,135.45		6,784.25		36,298.01	
251.70		929.44		7,468.74	
77.33			919.60	1,086.83	
	15.72	573.40		164.76	
	16.18		638.22		1,058.83
47.37		936.61		2,168.24	
	56.90	1,000.70			478.72
246.34		4,427.19		10,825.47	
53.68		566.79		1,962.56	
	13.84		621.44		981.38
142.11		2,074.58		5,769.55	
	27.92	1,174.57		448.54	
9.09			139.30	96.94	
48.27			539.27	715.68	
264.94		4,939.66		11,828.00	
4.49			815.61		698.80
62.37		444.64		2,066.29	
4.87			366.39		239.84
64.70			653.42	1,028.73	
216.49		4,620.55		10,249.28	
272.58		3,350.67		10,437.72	
8.48		188.54		408.99	
123.62			833.98	2,380.25	
128.24		516.94		3,851.28	
24.03		7.34		632.12	
61.11			110.39	1,478.53	
	72.67		810.69		2,700.08
119.76		720.51		3,834.33	
			31.81		31.81
162.57		3,203.08		7,430.01	
103.50		38.67		2,729.64	
136.08		1,666.89		5,204.93	
73.35			5,972.86		4,065.73
600.85		9,425.60		25,047.77	
61.61			127.92	1,474.04	
437.96		1,609.87		12,993.60	
	1.04		42.20		69.13
16.49		237.16		665.87	
275.18		6,026.77		13,181.44	
59.27			1,344.34	173.81	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Milton R.P.D.	Jan., 1925	3,563.40			
Milverton R.P.D.	Aug., 1927		870.64		
Mitchell R.P.D.	Dec., 1925	1,009.00			
Newmarket R.P.D.	Mar., 1924	4,625.89			
Niagara R.P.D.	Jan., 1922	13,604.53			
Norwich R.P.D.	May, 1925	6,889.08			
Oil Springs R.P.D.	Dec., 1925	2,412.91			
Palmerston R.P.D.	Oct., 1926	264.53			
Petrolia R.P.D.	Aug., 1923		79.63		
Preston R.P.D.	April, 1922	5,163.17			
Ridgetown R.P.D.	Mar., 1922	3,707.22			
St. Jacobs R.P.D.	Nov., 1922	4,019.81			
St. Marys R.P.D.	Dec., 1927		2,644.72	709.26	
St. Thomas R.P.D.	Aug., 1923	3,773.63			
Saltfleet R.P.D.	Feb., 1922		605.62		
Sandwich R.P.D.	July, 1922	38,242.22			42.08
Sarnia R.P.D.	June, 1923	5,101.52			
Scarboro R.P.D.	Dec., 1923	6,626.46			
Seaforth R.P.D.	Nov., 1927		509.73		
Simcoe R.P.D.	Nov., 1922	2,167.40			
Stamford R.P.D.	Mar., 1922	6,299.51			
Stratford R.P.D.	July, 1924	0.74			7.00
Strathroy R.P.D.	Dec., 1926	1,635.08			
Streetsville R.P.D.	Nov., 1922	2,189.41		483.59	
Tavistock R.P.D.	April, 1923		1,071.57		
Thamesville R.P.D.	Nov., 1927	977.98			
Tilbury R.P.D.	Dec., 1923	2,603.36			
Tillsonburg R.P.D.	Dec., 1923	8,356.33			
Wallaceburg R.P.D.	Jan., 1923	4,831.33			107.23
Walsingham R.P.D.	Dec., 1926		250.15		125.60
Walton R.P.D.	Nov., 1924	457.59			
Waterdown R.P.D.	Oct., 1922	13,463.47			
Waterford R.P.D.	Nov., 1923		2,118.55		
Watford R.P.D.	Dec., 1929				
Welland R.P.D.	April, 1922	17,452.84			
Woodbridge R.P.D.	Jan., 1923	8,774.39			150.28
Woodstock R.P.D.	Feb., 1922	8,008.46			43.39
Totals		1,453,295.46	19,889.62	6,317.08	1,085,705.19

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
142.54		2,108.24		5,814.18	
	34.83		1,128.41		2,033.88
40.36		271.99		1,321.35	
185.04		126.29		4,937.22	
544.18		3,078.62		17,227.33	
275.56		1,557.44		8,722.08	
96.52		0.93		2,510.36	
10.58			358.81		83.70
	3.19		56.86		139.68
206.53		83.09		5,452.79	
148.29			550.84	3,304.67	
160.79			159.07	4,021.53	
	76.65		2,584.20		4,596.31
150.95		4,254.72		8,179.30	
	24.22	1,408.60		778.76	
1,529.14		6,261.65		45,990.93	
204.06		2,828.45		8,134.03	
265.06		5,252.89		12,144.41	
	20.39	254.81			275.31
86.70		19.38		2,273.48	
251.98		1,422.59		7,974.08	
0.01		232.53		226.28	
65.40		696.83		2,397.31	
99.97		5,477.84		8,250.81	
	42.86		1,284.55		2,398.98
39.12		722.76		1,739.86	
104.13		998.95		3,706.44	
334.25			399.09	8,291.49	
189.99		3,220.77		8,134.86	
	13.38	945.98		556.85	
18.30		504.98		980.87	
538.54		6,947.04		20,949.05	
	84.74		620.96		2,824.25
			221.20		221.20
698.11		10,315.38		28,466.33	
348.84		4,190.93		13,163.88	
319.47		2,651.10		10,935.64	
32,698.14	700.04	984,719.05	35,689.11	1,370,631.57	35,585.80

NIAGARA SYSTEM

Reserve for Renewals—October 31, 1930

Total provision for renewals to October 31, 1929	\$12,012,656.51	
Deduct:		
Expenditures to October 31, 1929	870,895.36	
Balance brought forward October 31, 1929		\$11,141,761.15
Added during the year ending October 31, 1930:		
Amounts charged to municipalities as part of the cost of power delivered to them	\$1,046,158.88	
Amounts included in costs of distribution of power within rural power districts	167,463.56	
Provision against equipment employed in respect of contracts with private companies which purchased power	392,835.83	
Provision for renewals reserve on transmission line acquired from the Department of Railways and Canals (Port Colborne)	1,400.00	
Reserve provided on equipment and transmission lines purchased	4,572.03	
Reserve provided in respect of certain rural lines transferred to rural power districts and transmission lines	1,987.99	
Interest at 4% per annum on the monthly balances at the credit of the account	445,884.33	
		2,060,302.62
		<u>\$13,202,063.77</u>
Deduct:		
Expenditures during the year ending October 31, 1930	251,736.01	
Balance carried forward October 31, 1930		<u><u>\$12,950,327.76</u></u>

NIAGARA SYSTEM

Reserve for Obsolescence and Contingencies—October 31, 1930

Balance brought forward October 31, 1929	\$10,610,226.94	
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	\$1,957,433.27	
Amounts included in the costs of distribution of power within rural power districts	83,731.78	
Provision against equipment employed in respect of contracts with private customers which purchased power	852,619.88	
Interest at 4% per annum on monthly balances at the credit of the account	424,409.08	
		3,318,194.01
		<u>\$13,928,420.95</u>
Deduct:		
Expenditures during the year ending October 31, 1930	359,895.12	
Balance carried forward October 31, 1930		<u><u>\$13,568,525.83</u></u>

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount	Municipality	Period of years ending Oct. 31, 1930	Amount
	\$ c.	\$ c.		\$ c.	\$ c.
Acton.....	13 years	22,944.10	East Windsor.....	8 years	85,588.91
Agincourt.....	6 "	2,995.69	Elmira.....	12 "	34,758.51
Ailsa Craig.....	10 "	6,998.55	Elora.....	11 "	16,421.55
Alvinston.....	7 "	6,589.68	Embro.....	11 "	4,755.62
Amherstburg.....	13 "	17,899.54	Erieau.....	7 "	1,623.79
Ancaster twp.....	7 "	5,154.75	Erie Beach.....	6 "	439.41
Arkona.....	4 "	1,578.90	Essex.....	7 "	10,307.75
Aylmer.....	7 "	15,580.60	Etobicoke twp.....	8 "	56,972.51
Ayr.....	11 "	5,508.77	Exeter.....	9 "	16,339.86
Baden.....	13 "	14,516.75	Fergus.....	11 "	18,472.03
Barton twp.....	7 "	1,729.16	Fonthill.....	5 "	1,471.27
Beachville.....	13 "	17,589.93	Forest.....	8 "	10,978.74
Belle River.....	8 "	3,285.53	Galt.....	14 "	227,733.82
Blenheim.....	10 "	14,966.70	Georgetown.....	12 "	38,894.89
Blyth.....	7 "	3,087.68	Glencoe.....	7 "	7,076.39
Bolton.....	10 "	8,043.77	Goderich.....	11 "	50,600.45
Bothwell.....	10 "	8,707.28	Granton.....	9 "	3,469.55
Brampton.....	14 "	65,045.47	Guelph.....	14 "	263,987.99
Brantford.....	11 "	331,278.60	Hagersville.....	12 "	34,726.60
Brantford twp.....	7 "	9,134.42	Hamilton.....	14 "	1,333,362.13
Bridgeport.....	3 "	1,153.64	Harriston.....	9 "	13,437.77
Brigden.....	8 "	5,001.96	Harrow.....	7 "	6,258.50
Brussels.....	7 "	4,491.88	Hensall.....	9 "	5,671.22
Burford.....	10 "	5,412.70	Hespeler.....	14 "	35,959.49
Burgessville.....	9 "	2,208.55	Highgate.....	9 "	4,395.36
Caledonia.....	13 "	8,403.54	Humberstone.....	7 "	5,841.61
Campbellville.....	6 "	484.96	Ingersoll.....	14 "	75,176.79
Cayuga.....	6 "	2,892.90	Jarvis.....	7 "	4,985.78
Chatham.....	10 "	160,923.97	Kingsville.....	7 "	14,226.18
Chippawa.....	8 "	6,898.13	Kitchener.....	14 "	497,597.47
Clifford.....	7 "	2,082.37	Lambeth.....	10 "	3,636.66
Clinton.....	11 "	18,757.65	La Salle.....	5 "	3,855.35
Comber.....	10 "	8,370.76	Leamington.....	7 "	23,093.04
Cottam.....	4 "	941.80	Listowel.....	9 "	27,700.72
Courtright.....	7 "	2,001.97	London.....	14 "	897,425.49
Dashwood.....	8 "	3,541.74	London Ry. Comm..	11 "	63,663.42
Delaware.....	10 "	1,080.89	London twp.....	6 "	4,159.76
Dorchester.....	11 "	2,767.65	Lucan.....	10 "	8,572.42
Drayton.....	7 "	4,605.73	Lynden.....	10 "	6,647.57
Dresden.....	10 "	12,558.73	Markham.....	7 "	5,872.30
Drumbo.....	11 "	2,537.87	Merlin.....	7 "	5,117.69
Dublin.....	8 "	2,382.69	Merritton.....	9 "	26,689.32
Dundas.....	14 "	61,026.15	Milton.....	12 "	48,961.49
Dunnville.....	7 "	21,203.86	Milverton.....	9 "	21,205.66
Dutton.....	10 "	7,804.07	Mimico.....	13 "	49,976.26

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount	Municipality	Period of years ending Oct. 31, 1930	Amount
	\$ c.	\$ c.		\$ c.	\$ c.
Mitchell.....	14 years	18,057.57	Stratford.....	14 years	240,367.83
Moorefield.....	7 "	2,476.00	Strathroy.....	11 "	33,528.21
Mount Brydges.....	10 "	2,611.95	Sutton.....	7 "	4,060.18
Newbury.....	7 "	1,614.49	Tavistock.....	9 "	16,770.46
New Hamburg.....	14 "	21,205.02	Tecumseh.....	8 "	8,009.09
New Toronto.....	11 "	163,793.80	Thamesford.....	11 "	6,913.75
Niagara Falls.....	10 "	226,811.90	Thamesville.....	10 "	6,720.68
Niagara-on-Lake.....	7 "	10,873.65	Thedford.....	7 "	3,210.91
Norwich.....	13 "	15,893.48	Thorndale.....	11 "	3,887.82
Oil Springs.....	7 "	10,991.14	Thorold.....	8 "	26,298.75
Otterville.....	9 "	3,168.77	Tilbury.....	10 "	17,424.77
Palmerston.....	9 "	16,584.84	Tillsonburg.....	14 "	34,639.54
Paris.....	11 "	47,613.47	Toronto.....	14 "	6,978,210.21
Parkhill.....	7 "	6,853.17	Toronto twp.....	12 "	29,725.55
Petrolia.....	9 "	41,907.14	Walkerville.....	11 "	247,727.70
Plattsville.....	11 "	3,719.04	Wallaceburg.....	10 "	73,888.74
Point Edward.....	8 "	17,362.57	Wardsville.....	7 "	1,182.11
Port Colborne.....	9 "	32,083.67	Waterdown.....	14 "	9,772.03
Port Credit.....	13 "	12,791.91	Waterford.....	10 "	11,976.35
Port Dalhousie.....	9 "	10,743.37	Waterloo.....	14 "	102,032.46
Port Dover.....	7 "	7,928.43	Watford.....	8 "	7,854.84
Port Rowan.....	4 "	1,887.98	Welland.....	8 "	103,773.80
Port Stanley.....	13 "	15,838.76	Wellesley.....	9 "	7,424.00
Preston.....	14 "	114,313.70	West Lorne.....	9 "	13,317.15
Princeton.....	11 "	2,685.79	Weston.....	14 "	90,084.03
Queenston.....	7 "	2,607.63	Wheatley.....	7 "	3,747.14
Richmond Hill.....	6 "	4,578.51	Windsor.....	11 "	736,357.69
Ridgetown.....	10 "	16,278.52	Woodbridge.....	11 "	11,269.16
Riverside.....	8 "	26,385.76	Woodstock.....	14 "	146,506.22
Rockwood.....	12 "	4,502.07	Wyoming.....	9 "	3,122.44
Rodney.....	8 "	4,592.90	York East twp.....	6 "	61,766.45
St. Catharines.....	9 "	198,930.73	York North twp.....	7 "	21,977.44
St. Clair Beach.....	8 "	2,309.34	Zurich.....	8 "	5,396.71
St. George.....	10 "	5,334.45	Sandwich, Windsor & Amherstburg Ry...	8 "	62,635.68
St. Jacobs.....	8 "	5,456.48	Toronto Transporta- tion Commission..	9 "	110,183.96
St. Marys.....	14 "	55,377.45	Windsor, Essex & Lake Shore Ry....		2,176.82
St. Thomas.....	14 "	188,433.79			
Sandwich.....	7 "	81,184.18			
Sarnia.....	9 "	222,267.76			
Scarboro twp.....	7 "	49,453.83			
Seaforth.....	14 years	28,597.32			
Simcoe.....	10 "	30,829.30			
Springfield.....	8 "	3,740.86			
Stamford twp.....	9 "	31,012.66			
Stouffville.....	7 "	4,785.73			

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Rural power district	Period of years ending Oct. 31, 1930	Amount	Rural power district	Period of years ending Oct. 31, 1930	Amount
		\$ c.			\$ c.
Acton R.P.D.	3 years	61.55	Listowel R.P.D.	4 years	1,807.48
Ailsa Craig R.P.D.	1 "	0.87	London R.P.D.	8 "	29,367.31
Alvinston R.P.D.	2 "	27.29	Lucan R.P.D.	5 "	1,552.40
Amherstburg R.P.D.	7 "	15,389.19	Lynden R.P.D.	9 "	4,599.75
Aylmer R.P.D.	9 "	6,206.28	Markham R.P.D.	8 "	6,412.57
Ayr R.P.D.	5 "	533.35	Merlin R.P.D.	2 "	1,661.00
Baden R.P.D.	9 "	5,842.36	Milton R.P.D.	6 "	2,162.47
Beamsville R.P.D.	8 "	19,618.06	Milverton R.P.D.	4 "	820.64
Belle River R.P.D.	8 "	7,178.18	Mitchell R.P.D.	5 "	3,244.50
Blenheim R.P.D.	7 "	2,940.95	Newmarket R.P.D.	7 "	4,288.24
Bond Lake R.P.D.	7 "	12,872.81	Niagara R.P.D.	9 "	11,934.56
Bothwell R.P.D.	7 "	2,935.15	Norwich R.P.D.	6 "	10,272.73
Brampton R.P.D.	7 "	2,013.60	Oil Springs R.P.D.	5 "	1,315.07
Brant R.P.D.	9 "	7,743.42	Palmerston R.P.D.	4 "	117.35
Brigden R.P.D.	4 "	1,113.27	Petrolia R.P.D.	8 "	500.86
Burford R.P.D.	4 "	1,668.59	Preston R.P.D.	9 "	18,212.70
Caledonia R.P.D.	6 "	3,445.35	Ridgetown R.P.D.	9 "	8,496.34
Chatham R.P.D.	9 "	9,642.15	St. Jacobs R.P.D.	8 "	5,671.80
Chippawa R.P.D.	9 "	4,116.54	St. Marys R.P.D.	3 "	2,891.92
Clinton R.P.D.	3 "	1,484.38	St. Thomas R.P.D.	8 "	12,346.29
Delaware R.P.D.	8 "	7,347.05	Saltfleet R.P.D.	9 "	20,935.82
Dorchester R.P.D.	9 "	11,913.80	Sandwich R.P.D.	9 "	27,028.85
Dresden R.P.D.	3 "	127.28	Sarnia R.P.D.	8 "	11,962.35
Drumbo R.P.D.	9 "	3,079.39	Scarboro R.P.D.	7 "	3,926.71
Dundas R.P.D.	9 "	10,235.40	Seaforth R.P.D.	3 "	752.12
Dunnville R.P.D.	3 "	122.34	Simcoe R.P.D.	8 "	3,068.16
Dutton R.P.D.	5 "	1,157.55	Stamford R.P.D.	9 "	3,287.31
Elmira R.P.D.	5 "	585.26	Stratford R.P.D.	7 "	5,117.49
Elora R.P.D.	5 "	2,246.31	Strathroy R.P.D.	4 "	783.40
Essex R.P.D.	6 "	4,890.70	Streetsville R.P.D.	8 "	5,806.69
Exeter R.P.D.	8 "	6,441.88	Tavistock R.P.D.	8 "	3,259.01
Forest R.P.D.	4 "	275.66	Thamesville R.P.D.	3 "	1,241.93
Galt R.P.D.	9 "	2,951.82	Tilbury R.P.D.	7 "	1,957.41
Georgetown R.P.D.	6 "	1,747.06	Tillsonburg R.P.D.	7 "	11,869.45
Goderich R.P.D.	6 "	1,515.17	Wallaceburg R.P.D.	8 "	6,536.09
Grantham R.P.D.	6 "	12,082.46	Walsingham R.P.D.	4 "	1,808.65
Guelph R.P.D.	6 "	3,124.71	Walton R.P.D.	6 "	1,684.77
Haldimand R.P.D.	6 "	1,516.61	Waterdown R.P.D.	8 "	7,778.69
Harriston R.P.D.	1 "	36.22	Waterford R.P.D.	7 "	2,358.54
Harrow R.P.D.	7 "	4,977.14	Watford R.P.D.	1 "	87.23
Ingersoll R.P.D.	9 "	4,800.18	Welland R.P.D.	9 "	29,843.10
Jordan R.P.D.	9 "	3,843.16	Woodbridge, R.P.D.	8 "	14,977.97
Keswick R.P.D.	7 "	6,523.52	Woodstock R.P.D.	9 "	13,999.65
Kingsville R.P.D.	7 "	19,384.75			\$16,534,198.80

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

NIAGARA SYSTEM

Reserve for Sinking Fund—October 31, 1930

Total provision for sinking fund to October 31, 1929..... \$14,172,354.72

Add:

Sinking fund provided on rural lines transferred to rural power districts to October 31, 1929.....	1,075.06
	<u>\$14,173,429.78</u>

Deduct:

Sinking fund on certain equipment sold.....	\$38.00
Sinking fund on the value of certain transmission lines transferred to rural power districts.....	691.59
	<u>729.59</u>
	<u>\$14,172,700.19</u>

Provided in the year ending October 31, 1930, in respect of:

Advances by the Province for construction of transmission lines and stations.....	\$435,859.03
Advances by the Province for construction of rural power districts.....	44,370.01
Advances by the Province for construction of pipe line to Ontario Power generating station.....	36,923.85
Advances by the Province for construction of Queenston- Chippawa development.....	795,984.23
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex system and Thorold system.....	481,453.90
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	566,907.59
	<u>2,361,498.61</u>
	<u><u>\$16,534,198.80</u></u>

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1930

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Milton.....	15,909 .84	789 .13	286 .38	318 .20	159 .10	1,552 .81
Welland.....	19,617 .60	823 .94	353 .12	392 .35	196 .18	1,765 .59
Totals.....	35,527 .44	1,613 .07	639 .50	710 .55	355 .28	3,318 .40

NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line together with interest allowed thereon to October 31, 1930

Lines operated by	Period of years ending October 31, 1930	Amount
		\$ c.
Milton.....	17 years	2,256 .86
Welland.....	18 "	8,455 .42
Total.....	.....	10,712 .28

GEORGIAN BAY

Operating Account for Year

COST OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$53,201.27	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:			
Generation and transmission equipment.....	\$336,357.03		
Rural power districts.....	23,704.25		
		360,061.28	
Interest on capital investment in:			
Generation and transmission equipment.....	\$284,722.95		
Rural power districts.....	14,705.71		
		299,428.66	
Provision for renewal of:			
Generation and transmission equipment.....	\$80,531.01		
Rural power districts.....	11,844.29		
		92,375.30	
Provision for obsolescence and contingencies in respect of:			
Generation and transmission equipment.....	\$23,850.93		
Rural power districts.....	11,844.29		
		35,695.22	
Provision for sinking fund:			
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$59,397.99		
By charges against contracts with private companies which purchase power.....	6,577.71		
By charges included in the cost of distribution of power within rural power districts.....	3,368.40		
		69,344.10	
			\$910,105.83

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
						Operating main-tenance and adminis-trative expenses	Interest
	To Jan. 1 1930	To Oct. 31 1930					
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alliston.....		60.00	88,272.22	189.4	463.24	3,636.03	3,817.45
Arthur.....		75.00	63,963.13	107.8	263.66	2,640.72	2,771.41
Barrie.....		30.00	509,866.18	1,948.5	4,765.72	25,516.16	19,802.81
Beaverton.....	38.00	37.00	66,633.49	253.8	620.75	3,608.56	2,722.46
Beeton.....		80.00	62,891.31	109.9	268.80	2,413.18	2,785.34
Bradford.....		65.00	72,903.23	134.0	327.74	3,003.75	3,155.72
Brechin.....	55.00	50.00	18,999.05	49.8	121.80	1,205.94	793.72
Cannington.....	44.00	40.00	43,490.51	150.6	368.34	2,321.79	1,783.92
Chatsworth.....	48.00	45.00	13,584.27	44.1	107.86	990.14	563.48
Chesley.....		43.00	144,856.22	437.3	1,069.57	6,817.94	5,962.36

SYSTEM

ending October 31st, 1930

REVENUE FOR PERIOD

Collected from municipalities.....	\$733,242.04	
Power sold to private companies.....	83,516.59	
Collected from customers in rural power districts.....	109,933.71	
		\$926,692.34
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year.....	\$13,932.65	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied to them in the year.....	7,875.26	
		21,807.91
		\$948,500.25
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$34,738.03	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	3,656.39	
		38,394.42
Revenue.....		\$910,105.83
		\$910,105.83

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,304.88	280.08	883.45	16.03	10,401.16	11,361.20	960.04	.....
1,011.73	200.19	644.48	9.13	7,541.32	8,085.59	544.27	.....
4,887.52	1,694.52	4,594.17	164.94	61,425.84	58,455.75	.....	2,970.09
706.34	232.22	635.12	21.48	8,546.93	9,426.66	879.73	.....
1,009.28	193.90	645.37	9.30	7,325.17	8,793.95	1,468.78	.....
1,124.72	232.00	731.14	11.35	8,586.42	8,712.28	125.86	.....
256.39	67.23	186.64	4.22	2,635.94	2,531.26	.....	104.68
495.97	153.51	417.33	12.75	5,553.61	6,127.18	573.57	.....
162.00	52.96	131.03	3.73	2,011.20	2,008.45	.....	2.75
1,762.41	487.01	1,381.46	37.02	17,517.77	18,804.89	1,287.12	.....

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating main-tenance and adminis-trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Coldwater	40.00	36.00	64,963.33	241.2	589.94	3,138.09	2,678.40
Collingwood		40.00	477,315.27	1,631.6	3,990.63	28,730.20	19,682.24
Cookstown		55.00	19,352.63	46.1	112.75	1,178.66	825.31
Creemore	58.00	55.00	41,337.93	103.6	253.39	2,214.54	1,752.16
Dundalk	40.00	37.00	41,466.02	157.9	386.20	2,426.46	1,696.72
Durham		33.00	127,896.62	503.9	1,232.46	7,306.37	5,217.83
Elmvale		36.00	44,630.17	161.1	394.02	2,740.29	1,824.53
Elmwood	50.00	48.00	16,271.72	45.9	112.26	875.61	687.13
Flesherton	45.00	43.00	24,336.24	78.5	192.00	1,338.96	1,013.01
Grand Valley	60.00	58.00	43,590.24	98.3	240.43	1,954.52	1,863.47
Gravenhurst	25.00	24.00	69,015.74	548.2		6,657.45	3,084.59
Hanover		37.00	290,197.24	1,013.1	2,477.88	12,719.23	11,966.69
Holstein		90.00	14,033.65	17.0	41.58	394.73	639.95
Huntsville		27.00	162,584.57	1,005.2	12.72	11,620.39	7,331.28
Kincardine	65.00	60.00	185,286.14	390.8	955.83	7,238.63	7,998.44
Kirkfield		60.00	13,171.29	30.5	74.60	516.51	557.64
Lucknow	70.00	65.00	95,299.72	186.2	455.42	4,001.78	4,130.47
Markdale		36.00	35,947.98	134.8	329.70	2,111.81	1,476.60
Meaford	42.00	40.00	122,788.07	358.7	877.32	4,951.62	5,185.73
Midland		26.00	782,168.96	3,227.2	7,893.21	35,364.73	31,676.47
Mount Forest	45.00	40.00	108,827.89	332.9	814.22	4,944.80	4,549.92
Muskoka twp.			10,752.71	26.8	65.55	592.67	459.59
Neustadt		70.00	32,083.31	33.9	82.91	713.94	1,412.54
Orangeville	48.00	45.00	161,153.16	485.3	1,186.97	7,440.02	6,765.75
Owen Sound		30.00	773,027.38	3,185.3	7,790.73	38,865.96	31,405.02
Paisley	60.00	58.00	54,003.78	126.6	309.64	2,571.79	2,284.41
Penetanguishene		35.00	166,969.12	583.9	1,428.12	7,096.19	6,838.22
Port McNicoll		33.00	23,542.80	88.5	216.46	1,107.76	966.73
Port Perry	58.00	50.00	74,104.79	182.1	445.39	3,119.96	3,130.97
Priceville		85.00	7,385.69	13.5	33.02	483.80	320.99
Ripley	85.00	80.00	33,950.66	50.6	123.76	1,508.73	1,487.02
Shelburne		41.00	59,104.35	192.8	471.56	3,129.82	2,451.67
Stayner		44.00	41,852.25	145.9	356.85	2,876.41	1,718.65
Sunderland	63.00	55.00	24,578.38	58.2	142.35	1,080.72	1,034.05
Tara	93.00	80.00	25,682.42	64.6	158.00	1,308.67	1,225.70
Teeswater		58.00	45,234.79	91.4	223.55	1,826.45	1,947.56
Thornton		90.00	14,602.40	24.8	60.66	615.73	635.04
Tottenham		96.00	46,203.88	65.8	160.94	1,737.57	2,059.70
Uxbridge	60.00	55.00	77,436.04	177.7	434.64	3,201.88	3,276.12
Victoria Harbor	42.00	40.00	21,697.96	69.8	170.72	1,196.80	901.41
Waubushene		40.00	11,737.34	38.8	94.90	739.66	485.93
Windermere		140.00	20,121.32	12.3	30.08	427.27	376.20
Wingham	65.00	60.00	173,077.64	332.5	813.24	6,282.11	7,497.88
Woodville	58.00	53.00	22,392.56	54.9	134.28	912.29	937.85

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
700.67	239.08	619.06	20.42	7,985.66	8,825.23	839.57	.....
5,495.44	1,643.70	4,585.57	138.12	64,265.90	65,262.63	996.73	.....
272.46	68.41	191.27	3.90	2,652.76	2,532.72	.....	120.04
569.55	132.56	407.32	8.77	5,338.29	5,755.72	417.43	.....
437.46	150.69	394.09	13.37	5,504.99	5,940.38	435.39	.....
1,307.38	465.71	1,210.96	42.66	16,783.37	16,629.21	.....	154.16
492.79	163.17	426.54	13.64	6,054.98	5,797.95	.....	257.03
211.52	60.92	158.97	3.89	2,110.30	2,219.55	109.25	.....
258.39	85.08	235.10	6.65	3,129.19	3,402.23	273.04	.....
627.85	144.10	432.51	8.32	5,271.20	5,733.67	462.47	.....
665.05	295.79	715.44	46.40	11,464.72	13,262.24	1,797.52	.....
3,290.09	1,060.70	2,782.97	85.76	34,383.32	37,513.65	3,130.33	.....
248.40	41.53	148.41	1.44	1,516.04	1,530.00	13.96	.....
1,921.94	621.50	1,706.34	85.09	23,299.26	27,140.00	3,840.74	.....
2,734.99	589.07	1,845.29	33.08	21,395.33	23,762.65	2,367.32	.....
185.31	42.17	129.20	2.58	1,508.01	1,832.00	323.99	.....
1,442.68	306.09	952.69	15.76	11,304.89	12,287.81	982.92	.....
349.05	127.06	342.21	11.41	4,747.84	4,854.00	106.16	.....
1,565.56	416.28	1,196.30	30.36	14,223.17	14,482.45	259.28	.....
7,640.79	2,695.14	7,369.99	273.19	92,913.52	83,906.54	.....	9,006.98
1,350.40	365.59	1,056.25	28.18	13,109.36	13,623.20	513.84	.....
147.50	35.05	105.45	2.27	1,408.08	1,379.53	.....	28.55
557.56	91.43	328.71	2.87	3,189.96	2,316.36	.....	873.60
2,018.66	539.35	1,566.16	41.08	19,557.99	22,105.21	2,547.22	.....
7,538.38	2,722.81	7,272.61	269.64	95,865.15	95,559.91	.....	305.24
751.57	171.16	527.01	10.72	6,626.30	7,383.29	756.99	.....
1,891.47	579.58	1,601.45	49.43	19,484.46	20,437.16	952.70	.....
251.40	86.89	224.15	7.49	2,860.88	2,919.65	58.77	.....
1,013.84	234.47	722.65	15.41	8,682.69	9,325.76	643.07	.....
114.21	32.69	74.13	1.14	1,059.98	1,145.33	85.35	.....
553.11	103.30	343.69	4.28	4,123.89	4,092.31	.....	31.58
703.62	214.86	570.42	16.32	7,558.27	7,902.69	344.42	.....
474.81	145.77	401.31	12.35	5,986.15	6,421.02	434.87	.....
347.09	80.15	243.11	4.93	2,932.40	3,281.83	349.43	.....
414.17	99.44	285.05	5.47	3,496.50	5,311.56	1,815.06	.....
677.68	165.85	451.60	7.74	5,300.43	5,303.10	2.67	.....
230.40	51.29	147.03	2.10	1,742.25	2,229.00	486.75	.....
775.26	140.55	476.42	5.57	5,356.01	6,319.20	963.19	.....
1,086.36	246.07	756.28	15.05	9,016.40	9,919.86	903.46	.....
260.87	78.34	209.74	5.91	2,823.79	2,816.88	.....	6.91
138.46	46.63	113.14	3.28	1,622.00	1,550.96	.....	71.04
139.51	27.86	86.21	1.04	1,088.17	1,719.66	631.49	.....
2,635.70	563.11	1,732.55	28.15	19,552.74	20,244.66	691.92	.....
312.05	72.36	221.23	4.65	2,594.71	2,956.07	361.36	.....

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
RURAL POWER DISTRICTS			\$ c.		\$ c.	\$ c.	\$ c.
Alliston R.P.D.—Tossorontio, Essa and Tecumseh twps.....			17,493.15	41.2	100.77	683.25	747.21
Arthur R.P.D.—Luther E. twp.....			487.78	1.1	2.69	19.04	21.11
Bala R.P.D.—Wood and Medora twps.			12,199.53	44.6	109.08	519.00	469.33
Barrie R.P.D.—Vespra, Oro and Innisfil twps.....			54,277.65	154.0	376.66	2,389.39	2,004.08
Beaumaris R.P.D.—Wood, Medora and Monck twps.....			26,567.20	95.2	232.84	1,377.38	1,105.11
Beaverton R.P.D.—Mara twp.....			340.27	0.9	2.20	20.59	14.58
Bradford R.P.D.—King twp.....			1,795.36	3.3	8.07	65.73	78.51
Buckskin R.P.D.—Matchedash, Wood and Medora twps.....			6,060.42	17.4	42.56	254.70	257.29
Cannington No. 1, R.P.D.—Brock and Eldon twps.....			5,618.64	17.3	42.31	254.93	234.06
Cannington No. 2, R.P.D.—Brock twp.....			6,675.64	20.3	49.65	309.21	277.70
Chatsworth R.P.D.—Holland twp....			3,889.83	9.4	22.99	273.02	167.36
Elmvale R.P.D.—Flos, Medonte, Vespra and Oro twps.....			8,719.19	20.4	49.89	345.99	284.98
Flesherton R.P.D.—Artemesia twp..			1,825.46	4.9	11.98	62.49	76.55
Georgina R.P.D.—Georgina twp.....			8,816.55	32.3	79.00	587.05	364.68
Hawkestone R.P.D.—Oro and Orillia twps.....			2,784.83	10.6	259.13	133.60	94.37
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps.....			45,497.53	99.7	243.85	1,865.78	1,800.57
Mariposa R.P.D.—Reach, Mariposa and Brock twps.....			36,062.30	110.0	269.04	1,577.75	1,503.01
Markdale R.P.D.—Artemesia and Glenelg twps.....			203.25	0.9	2.20	9.86	6.95
Medonte R.P.D.—Tay twp.....			498.01	1.7	4.16	26.78	20.89
Nottawasaga R.P.D.—Nottawasaga twp.....			8,582.66	27.7	67.75	481.38	353.14
Orangeville R.P.D.—Garafraxa E. and Amaranth twps.....			8,478.75	24.3	59.43	360.60	358.81
Port Perry R.P.D.—Reach, Cartwright, Scugog and Manvers twps....			26,889.69	65.0	158.98	1,494.43	1,134.06
Shelburne R.P.D.—Mulmur and Melancthon twps.....			1,989.93	4.6	11.25	252.28	84.96
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps..			16,772.48	71.6	175.12	859.00	678.95
Tara R.P.D.—Derby, Keppel, Amabel, and Arran twps.....			13,963.80	41.7	101.99	844.42	610.25
Thornton R.P.D.—Essa twp.....			1,798.20	2.5	6.11	53.51	62.93
Utterson R.P.D.—Stephenson, Wood and Medora twps.....			13,289.94	12.4	30.33	236.58	278.71

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
244.07	56.58	171.23	3.48	2,006.59	2,006.59	see page	209
7.03	1.62	4.84	0.09	56.42	56.42	"	"
107.88	40.78	107.55	.....	1,353.62	1,353.62	"	"
571.90	179.43	460.82	13.04	5,995.32	5,995.32	"	"
295.08	103.79	254.10	8.06	3,376.36	3,376.36	"	"
4.58	1.20	3.34	0.07	46.56	46.56	"	"
27.70	5.71	18.00	0.28	204.00	204.00	"	"
78.02	25.27	59.12	1.47	718.43	718.43	"	"
69.48	19.20	54.52	1.46	675.96	675.96	"	"
83.12	22.83	64.82	1.72	809.05	809.05	see page	211
54.42	16.39	38.40	0.80	573.38	573.38	"	"
84.72	26.65	65.77	1.73	859.73	859.73	"	"
22.26	6.85	17.90	0.41	198.44	198.44	"	"
96.61	31.24	84.37	2.73	1,245.68	1,245.68	"	"
20.20	8.56	21.63	0.90	538.39	538.39	"	"
588.90	141.73	413.46	8.44	5,062.73	5,062.73	"	"
444.84	124.58	348.30	9.31	4,276.83	4,276.83	"	"
1.60	0.75	1.90	0.08	23.34	23.34	"	"
5.74	1.96	4.79	0.14	64.46	64.46	"	"
102.88	30.31	82.90	2.34	1,120.70	1,120.70	"	"
109.26	29.05	82.73	2.06	1,001.94	1,001.94	"	"
366.72	85.01	260.50	5.51	3,505.21	3,505.21	"	"
28.38	7.56	19.72	0.39	404.54	404.54	"	"
157.76	63.20	157.32	6.06	2,097.41	2,097.41	"	"
184.62	52.89	140.45	3.53	1,938.15	1,938.15	"	"
22.46	4.98	14.42	0.21	164.62	164.62	"	"
96.88	22.25	63.87	1.05	729.67	729.67	"	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
Uxbridge R.P.D.—Uxbridge, Scott, Georgina, Reach and Brock twps. . .			\$ c.		\$ c.	\$ c.	\$ c.
			26,633.16	60.4	147.72	1,113.86	1,132.48
Walkerton Quarry R.P.D.—Brant twp.			725.03	1.5	3.67	84.57	30.49
Wasaga R.P.D.—Nottawasaga, Sunnidale and Flos twps.			27,935.11	89.5	218.90	1,629.24	1,160.44
Wroxeter R.P.D.—Howick, Turnberry and Morris twps.			22,647.68	41.6	101.75	908.65	990.17
Totals—Municipalities.			5,786,635.76	19,843.9	44,748.36	283,415.79	239,616.25
Totals—Rural power districts.			409,519.02	1,128.0	2,992.07	19,094.06	16,403.73
Totals—Companies and Distributing systems.			744,067.99	2,232.7	5,460.84	33,847.18	28,702.97
			6,940,222.77				
Non-operating capital.			57,530.83				
Grand Totals.			6,997,753.60	23,204.6	53,201.27	336,357.03	284,722.95

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
Alliston R.P.D.—Tossorontio, Essa and Tecumseh twps.	\$ c.	\$ c.	\$ c.	\$ c.
	35,012.83	17,255.13	17,757.70	2,006.59
Arthur R.P.D.—Luther E. twp.	*1,284.39	595.50	688.89	56.42
Bala R.P.D.—Wood and Medora twps.	*39,675.04	18,952.13	20,722.91	1,353.62
Barrie R.P.D.—Vespra, Oro and Innisfil twps.	75,659.23	37,829.62	37,829.61	5,995.32
Beaumaris R.P.D.—Wood, Medora and Monck twps.	49,003.83	24,501.92	24,501.91	3,376.36
Beaverton R.P.D.—Mara twp.	6,466.64	3,233.32	3,233.32	46.56
Beeton R.P.D.—Tecumseh twp.	565.92	282.96	282.96	
Bradford R.P.D.—King twp.	1,483.85	741.92	741.93	204.00
Buckskin R.P.D.—Matchedash, Wood and Medora twps.	3,620.34		3,620.34	718.43
Cannington No. 1 , R.P.D.—Brock and Eldon twps.	*6,934.86	2,929.13	4,005.73	675.96

NOTE.—Items marked * include portions of transmission lines used for purposes of rural power districts.

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
374.82	84.70	260.00	5.11	3,118.69	3,118.69	see page	211
10.77	2.84	7.23	0.13	139.70	139.70	"	"
336.49	100.72	269.99	7.57	3,723.35	3,723.35	"	"
349.64	75.41	227.23	3.52	2,656.37	2,656.37	"	"
67,522.69	19,836.97	55,616.77	1,679.83	712,436.66	733,242.04	34,738.03	13,932.65
4,948.83	1,374.04	3,781.22	91.69	48,685.64	48,685.64	.....	.....
8,059.49	2,639.92	6,577.71	(1,771.52)	83,516.59	83,516.59	.....	.....
80,531.01	23,850.93	65,975.70	.....	844,638.89	865,444.27	.....	.....

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited or charged to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
447.24	423.68	355.58	355.58	95.32	3,683.99	3,854.23	170.24	.....
9.41	29.02	23.40	23.40	6.65	148.30	166.87	18.57	.....
2,374.67	656.96	542.79	542.79	150.56	5,621.39	5,748.47	127.08	.....
2,332.72	1,151.32	1,002.27	1,002.27	263.84	11,747.74	11,655.41	.....	92.33
1,916.35	1,020.35	888.26	888.26	233.84	8,323.42	8,006.94	.....	316.48
71.18	37.15	32.34	32.34	8.52	228.09	107.52	.....	120.57
1.40	12.94	11.32	11.32	2.98	39.96	39.96	.....	.....
9.11	34.09	29.68	29.68	7.82	314.38	242.35	.....	72.03
119.55	162.62	70.78	70.78	37.27	1,179.43	969.94	.....	209.49
214.56	180.37	135.93	135.93	41.33	1,384.08	1,558.54	174.46	.....

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Cannington No. 2, R.P.D. —Brock twp.	10,248.48	4,349.52	5,898.96	809.05
Chatsworth R.P.D. —Holland twp.	1,410.01	705.01	705.00	573.38
Elmvale R.P.D. —Flos, Medonte, Vespra and Oro twps.	22,714.95	11,225.15	11,489.80	859.73
Flesherton R.P.D. —Artemesia twp.	2,871.75	1,435.88	1,435.87	198.44
Georgina R.P.D. —Georgina twp.	17,512.92	8,756.46	8,756.46	1,245.68
Hawkestone R.P.D. —Oro and Orillia twps.	39,356.90	19,678.45	19,678.45	538.39
Holstein R.P.D. —Egremont twp.	283.84	141.92	141.92	.....
Innisfil R.P.D. —Innisfil and Gwillimbury W. twps.	59,052.99	29,526.50	29,526.49	5,062.73
Lucknow R.P.D. —Kinloss twp.	615.03	307.51	307.52	.....
Mariposa R.P.D. —Reach, Mariposa and Brock twps.	68,235.15	34,117.58	34,117.57	4,276.83
Markdale R.P.D. —Artemesia and Glenelg twps.	*1,725.33	783.29	942.04	23.34
Meaford R.P.D. —St. Vincent twp.	1,272.15	636.07	636.08	.....
Medonte R.P.D. —Tay twp.	4,209.16	2,104.58	2,104.58	64.46
Neustadt R.P.D. —Bentinck twp.	513.09	256.54	256.55	.....
Nottawasaga R.P.D. —Nottawasaga twp.	16,375.60	8,187.80	8,187.80	1,120.70
Orangeville R.P.D. —Garafraxa E. and Amaranth twps.	13,277.84	6,638.92	6,638.92	1,001.94
Port Perry R.P.D. —Reach, Cartwright, Scugog and Manvers twps.	62,786.98	31,393.49	31,393.49	3,505.21
Ripley R.P.D. —Kinloss twp.	395.67	197.83	197.84	.....
Shelburne R.P.D. —Mulmur and Melancthon twps.	*4,751.18	1,925.48	2,825.70	404.54
Sparrow Lake R.P.D. —Rama, Orillia N., Morrison and Matchedash twps.	44,080.64	22,040.32	22,040.32	2,097.41
Tara R.P.D. —Derby, Kippel, Amabel and Arran twps.	*28,554.68	14,090.57	14,464.11	1,938.15
Thornton R.P.D. —Essa twp.	9,646.64	4,823.32	4,823.32	164.62
Utterson R.P.D. —Stephenson, Wood and Medora twps.	18,246.60	9,123.30	9,123.30	729.67
Uxbridge R.P.D. —Uxbridge, Scott, Georgina, Reach and Brock twps.	66,817.81	33,408.90	33,408.91	3,118.69
Walkerton Quarry R.P.D. —Brant twp.	2,285.90	1,142.95	1,142.95	139.70
Wasaga R.P.D. —Nottawasaga, Sunnidale and Flos twps.	40,218.60	.....	40,218.60	3,723.35
Wroxeter R.P.D. —Howich, Turnberry and Morris twps.	29,238.97	14,213.35	15,025.62	2,656.37
Non-operating capital.	786,405.79		418,873.47	
	44,285.85		44,285.85	
Totals.	830,691.64	367,532.32	463,159.32	48,685.64

NOTE.—Items marked * include portions of transmission lines used for purposes of rural power districts.

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
423.53	246.46	183.56	183.56	56.48	1,902.64	2,171.51	268.87	.....
88.70	31.48	27.40	27.40	7.21	755.57	832.50	76.93	.....
468.36	160.06	134.04	134.04	36.68	1,792.91	1,656.79	.....	136.12
110.19	64.18	55.87	55.87	14.71	499.26	487.92	.....	11.34
566.03	398.82	347.19	347.19	91.40	2,996.31	3,110.15	113.84	.....
288.55	224.49	195.43	195.43	51.45	1,493.74	776.30	.....	717.44
1.93	3.66	3.19	3.19	0.84	12.81	12.81	.....	.....
1,905.10	1,132.05	985.50	985.50	259.44	10,330.32	9,309.22	.....	1,021.10
3.49	14.05	12.30	12.30	3.24	45.38	45.38	.....	.....
2,329.96	1,402.64	1,221.06	1,221.06	321.44	10,772.99	11,599.45	826.46	.....
19.51	38.68	30.50	30.50	8.86	151.39	174.86	23.47	.....
6.04	29.19	25.45	25.45	6.70	92.83	92.83	.....	.....
42.67	32.23	28.06	28.06	7.39	202.87	178.26	.....	24.61
1.40	11.73	10.25	10.25	2.70	36.33	36.33	.....	.....
674.95	364.36	317.19	317.19	83.50	2,877.89	2,766.55	.....	111.34
122.10	305.06	265.57	265.57	69.91	2,030.15	1,417.16	.....	612.99
1,111.13	921.15	801.90	801.90	211.10	7,352.39	6,259.21	.....	1,093.18
3.49	8.99	7.91	7.91	2.08	30.38	30.38	.....	.....
118.00	127.56	93.04	93.04	29.23	865.41	743.63	.....	121.78
1,156.32	1,005.79	875.58	875.58	230.49	6,241.17	6,494.30	253.13	.....
1,460.82	613.59	526.69	526.69	140.61	5,206.55	5,175.39	.....	31.16
61.77	36.63	31.89	31.89	8.39	335.19	226.12	.....	109.07
772.18	138.32	120.41	120.41	31.70	1,912.69	1,380.39	.....	532.30
1,254.19	1,258.01	1,095.14	1,095.14	288.30	8,109.47	6,269.83	.....	1,839.64
29.44	52.52	45.72	45.72	12.04	325.14	291.11	.....	34.03
2,182.15	1,701.34	740.52	740.52	389.88	9,477.76	11,081.10	1,603.34	.....
1,006.06	674.17	570.58	570.58	154.50	5,632.26	4,964.00	.....	668.26
23,704.25	14,705.71	11,844.29	11,844.29	3,368.40	114,152.58	109,933.71	3,656.39	7,875.26
Net Debit.....							\$4,218.87	

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1930, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June, 1918	1,289.67	.....	.....	1,289.67
Arthur.....	Dec., 1916	993.04	.....	.....	993.04
Barrie.....	April, 1913	1,120.54	.....	.....	1,120.54
Beaverton.....	Nov., 1914	1,329.23	.....	.....	1,329.23
Beeton.....	Aug., 1918	1,714.30	.....	.....	1,714.30
Bradford.....	Oct., 1918	739.93	.....	.....	739.93
Brechin.....	Jan., 1915	649.06	.....	.....	649.06
Cannington.....	Nov., 1914	1,226.09	.....	.....	1,226.09
Chatsworth.....	Dec., 1915	425.86	.....	.....	425.86
Chesley.....	July, 1916	2,162.59	.....	.....	2,162.59
Coldwater.....	Mar., 1913	1,416.71	.....	.....	1,416.71
Collingwood.....	Mar., 1913	5,393.06	.....	.....	5,393.06
Cookstown.....	May, 1918	351.93	.....	.....	351.93
Creemore.....	Nov., 1914	1,035.40	.....	.....	1,035.40
Dundalk.....	Dec., 1915	1,415.11	.....	.....	1,415.11
Durham.....	Dec., 1915	2,118.03	.....	.....	2,118.03
Elmvale.....	June, 1913	285.73	.....	.....	285.73
Elmwood.....	April, 1918	356.45	.....	.....	356.45
Flesherton.....	Dec., 1915	639.78	.....	.....	639.78
Grand Valley.....	Dec., 1916	944.50	.....	.....	944.50
Gravenhurst.....	Nov., 1915	1,936.95	.....	.....	1,936.95
Hanover.....	Sept., 1916	4,867.88	.....	.....	4,867.88
Holstein.....	May, 1916	.....	4,131.81	800.00	.....
Huntsville.....	Sept., 1916	2,774.75	.....	.....	2,774.75
Kincardine.....	Mar., 1921	4,144.14	.....	.....	4,144.14
Kirkfield.....	June, 1920	255.87	.....	.....	255.87
Lucknow.....	Jan., 1921	2,106.69	.....	.....	2,106.69
Markdale.....	Mar., 1916	570.69	.....	.....	570.69
Meaford.....	Jan., 1924	2,432.33	.....	.....	2,432.33
Midland.....	July, 1911	44.27	.....	.....	44.27
Mount Forest.....	Dec., 1915	3,268.67	.....	.....	3,268.67
Muskoka township.....	June, 1929	265.96	.....	.....	.....
Neustadt.....	Dec., 1918	.....	1,108.05	.....	.....
Orangeville.....	July, 1916	4,388.26	.....	.....	4,388.26
Owen Sound.....	Dec., 1915	6,690.51	.....	.....	6,690.51
Paisley.....	Sept., 1923	769.42	.....	.....	769.42
Penetanguishene.....	July, 1911	2,499.41	.....	.....	2,499.41
Port McNicoll.....	Jan., 1915	289.63	.....	.....	289.63
Perry Perry.....	Sept., 1922	2,336.27	.....	.....	2,336.27
Priceville.....	Mar., 1920	.....	123.64	.....	.....
Ripley.....	Jan., 1921	659.24	.....	.....	659.24
Shelburne.....	July, 1916	1,068.95	.....	.....	1,068.95
Stayner.....	Oct., 1913	842.01	.....	.....	842.01
Sunderland.....	Mar., 1914	736.83	.....	.....	736.83
Tara.....	Feb., 1918	.....	1,793.69	.....	.....

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
25.83	960.04	.....	985.87	.....
15.34	544.27	.....	559.61	.....
17.93	2,970.09	.....	2,952.16
17.63	879.73	.....	897.36	.....
24.99	1,468.78	.....	1,493.77	.....
14.03	125.86	.....	139.89	.....
10.45	104.68	.....	94.23
21.70	573.57	.....	595.27	.....
7.90	2.75	5.15	.....
37.12	1,287.12	.....	1,324.24	.....
24.97	839.57	.....	864.54	.....
86.88	996.73	.....	1,083.61	.....
6.19	120.04	.....	113.85
20.86	417.43	.....	438.29	.....
20.86	435.39	.....	456.25	.....
44.72	154.16	.....	109.44
5.40	257.03	.....	251.63
6.31	109.25	.....	115.56	.....
12.87	273.04	.....	285.91	.....
17.11	462.47	.....	479.58	.....
27.80	1,797.52	.....	1,825.32	.....
85.98	3,130.33	.....	3,216.31	.....
.....	151.94	13.96	.....	.....	3,469.79
53.80	3,840.74	.....	3,894.54	.....
87.13	2,367.32	.....	2,454.45	.....
3.39	323.99	.....	327.38	.....
30.85	982.92	.....	1,013.77	.....
9.93	106.16	.....	116.09	.....
44.12	259.28	.....	303.40	.....
0.80	9,006.98	.....	9,006.18
62.03	513.84	.....	575.87	.....
10.64	28.55	248.05	.....
.....	44.32	.....	873.60	.....	2,025.97
79.72	2,547.22	.....	2,626.94	.....
108.51	305.24	.....	196.73
13.47	756.99	.....	770.46	.....
33.14	952.70	.....	985.84	.....
3.87	58.77	.....	62.64	.....
44.46	643.07	.....	687.53	.....
.....	4.95	85.35	.....	.....	43.24
11.74	31.58	.....	19.84
15.69	344.42	.....	360.11	.....
11.83	434.87	.....	446.70	.....
11.37	349.43	.....	360.80	.....
.....	71.75	1,815.06	.....	.....	50.38

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1930, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Teeswater.....	Dec., 1920	405.87			405.87
Thornton.....	Nov., 1918	506.39			506.39
Tottenham.....	Oct., 1918		1,393.60	88.75	
Uxbridge.....	Sept., 1922	2,313.46			2,313.46
Victoria Harbor.....	July, 1914	435.69			435.69
Waubauskene.....	Dec., 1914	206.05			206.05
Windermere.....	June, 1930				
Wingham.....	Dec., 1920	4,540.16			4,540.16
Woodville.....	Nov., 1914	620.12			620.12
RURAL POWER DISTRICTS*					
Alliston R.P.D.....	Nov., 1929				
Arthur R.P.D.....	Dec., 1929				
Bala R.P.D.....	Jan., 1930				
Barrie R.P.D.....	Aug., 1923	929.65			
Beaumaris R.P.D.....	June, 1928		195.21		
Beaverton R.P.D.....	Aug., 1930				
Bradford R.P.D.....	Aug., 1929		21.39		
Buckskin R.P.D.....	July, 1928		284.56		
Cannington No. 1, R.P.D.....	May, 1924	554.59			
Cannington No. 2, R.P.D.....	May, 1924	662.83			
Chatsworth R.P.D.....	Dec., 1928	145.41			
Elmvale R.P.D.....	Jan., 1924	110.98			
Flesherton R.P.D.....	Feb., 1922		389.60		
Georgina R.P.D.....	Oct., 1926		801.68		
Hawkestone R.P.D.....	Aug., 1930				
Innisfil R.P.D.....	Feb., 1928	490.24			
Mariposa R.P.D.....	Sept., 1923	2,657.92			
Markdale R.P.D.....	July, 1924		427.32		
Medonte R.P.D.....	July, 1930				
Nottawasaga R.P.D.....	Jan., 1922	909.95			
Orangeville R.P.D.....	Aug., 1927		866.75		
Port Perry R.P.D.....	Dec., 1922		115.00		
Shelburne R.P.D.....	Feb., 1926		37.93		
Sparrow Lake R.P.D.....	Oct., 1925	2,778.88			
Tara R.P.D.....	Jan., 1925	942.17			
Thornton R.P.D.....	Aug., 1930				
Utterson R.P.D.....	June, 1930				
Uxbridge R.P.D.....	Sept., 1925	33.90			
Walkerton Quarry R.P.D.....	Feb., 1922	44.78			
Wasaga Beach R.P.D.....	July, 1923	4,887.63			
Wroxeter R.P.D.....	Feb., 1929		22.91		
		92,732.41	11,713.14	888.75	77,317.52

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7.77		2.67		10.44	
6.71		486.75		493.46	
	53.56	963.19			395.22
36.17		903.46		939.63	
8.66			6.91	1.75	
4.07			71.04		66.97
		631.49		631.49	
88.33		691.92		780.25	
10.11		361.36		371.47	
		170.24		170.24	
		18.57		18.57	
		127.08		127.08	
37.19			92.33	874.51	
	7.81		316.48		519.50
			120.57		120.57
	0.86		72.03		94.28
	11.38		209.49		505.43
22.18		174.46		751.23	
26.51		268.87		958.21	
5.82		76.93		228.16	
4.44			136.12		20.70
	15.58		11.34		416.52
	32.07	113.84			719.91
			717.44		717.44
19.61			1,021.10		511.25
106.32		826.46		3,590.70	
	17.09	23.47			420.94
			24.61		24.61
36.40			111.34	835.01	
	34.67		612.99		1,514.41
	4.60		1,093.18		1,212.78
	1.52		121.78		161.23
111.16		253.13		3,143.17	
37.69			31.16	948.70	
			109.07		109.07
			532.30		532.30
1.36			1,839.64		1,804.38
1.79			34.03	12.54	
195.51		1,603.34		6,686.48	
	0.92		668.26		692.09
1,957.16	453.02	38,394.42	21,807.91	51,574.19	28,893.04

GEORGIAN BAY SYSTEM

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929.....	\$962,864.98	
Deduct:		
Expenditures to October 31, 1929.....	83,426.65	
Balance brought forward, October 31, 1929.....		\$879,438.33
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$72,471.52	
Amount included in costs of distribution of power within rural power districts.....	11,844.29	
Provision against equipment employed in respect of contracts with private companies which purchased power.....	8,059.49	
Renewals reserve provided on second-hand equipment purchased	9,735.24	
Interest at 4% per annum on monthly balances at the credit of the account.....	35,280.77	
		137,391.31
		\$1,016,829.64
Deduct:		
Expenditures during the year ending October 31, 1930.....	11,134.62	
Balance carried forward October 31, 1930.....		<u>\$1,005,695.02</u>

GEORGIAN BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward October 31, 1929.....	\$270,696.96	
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$21,211.01	
Amounts included in the costs of distribution of power within rural power districts.....	11,844.29	
Provision against equipment employed in respect of contracts with private companies which purchased power.....	2,639.92	
Interest at 4% per annum on monthly balances at the credit of the account.....	10,827.88	
		46,523.10
		\$317,220.06
Deduct:		
Expenditures during the year ending October 31, 1930.....	28,358.04	
Balance carried forward October 31, 1930.....		<u>\$288,862.02</u>

GEORGIAN BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds, provided out of other revenues of the system, and interest allowed thereon to
October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount	Municipality	Period of years ending Oct. 31, 1930	Amount
		\$ c.			\$ c.
Alliston.....	7 years	7,164.18	Tottenham.....	7 years	3,677.68
Arthur.....	9 "	7,439.70	Uxbridge.....	6 "	4,779.75
Barrie.....	12 "	45,639.57	Victoria Harbour.....	11 "	2,516.77
Beaverton.....	11 "	8,812.85	Waubashene.....	11 "	1,411.28
Beeton.....	7 "	5,777.68	Windsor.....	1 "	90.08
Bradford.....	7 "	6,516.91	Wingham.....	6 "	12,148.58
Brechin.....	11 "	3,625.15	Woodville.....	11 "	4,790.31
Cannington.....	11 "	6,606.23			
Chatsworth.....	10 "	1,517.60	RURAL POWER DISTRICTS*		
Chesley.....	9 "	12,403.58	Alliston R.P.D.....	1 years	279.50
Coldwater.....	12 "	4,494.50	Arthur R.P.D.....	1 "	11.84
Collingwood.....	12 "	59,262.32	Bala R.P.D.....	1 "	258.11
Cookstown.....	7 "	1,745.07	Barrie R.P.D.....	8 "	1,898.67
Creemore.....	11 "	4,611.22	Beaumaris R.P.D.....	3 "	1,128.53
Dundalk.....	10 "	4,239.26	Beaverton R.P.D.....	1 "	12.14
Durham.....	10 "	12,347.13	Beeton R.P.D.....	5 "	13.32
Elmvale.....	12 "	6,552.86	Bradford R.P.D.....	2 "	35.69
Elmwood.....	7 "	1,259.30	Bucksin R.P.D.....	3 "	219.80
Flesherton.....	10 "	2,392.84	Cannington No. 1, R.P.D.	7 "	740.10
Grand Valley.....	9 "	4,409.70	Cannington No. 2, R.P.D.	7 "	978.62
Gravenhurst.....	10 "	7,063.93	Chatsworth R.P.D.....	2 "	83.66
Hanover.....	9 "	32,402.77	Elmvale R.P.D.....	7 "	437.90
Holstein.....	9 "	1,419.72	Flesherton R.P.D.....	9 "	292.04
Huntsville.....	9 "	20,969.70	Georgina R.P.D.....	5 "	759.42
Kincardine.....	6 "	10,859.05	Hawkestone R.P.D.....	1 "	76.41
Kirkfield.....	6 "	1,151.76	Holstein R.P.D.....	2 "	1.31
Lucknow.....	6 "	5,432.41	Innisfil R.P.D.....	3 "	1,303.11
Markdale.....	9 "	3,141.68	Lucknow R.P.D.....	5 "	17.02
Meaford.....	6 "	7,014.03	Mariposa R.P.D.....	8 "	3,515.44
Midland.....	12 "	88,335.01	Markdale R.P.D.....	7 "	231.25
Mount Forest.....	10 "	10,950.44	Meaford R.P.D.....	1 "	13.18
Muskoka twp.....	2 "	208.56	Medonte R.P.D.....	1 "	12.71
Neustadt.....	7 "	3,950.98	Neustadt R.P.D.....	4 "	11.42
Orangeville.....	9 "	13,031.59	Nottawasaga R.P.D.....	9 "	1,594.84
Owen Sound.....	10 "	62,857.87	Orangeville R.P.D.....	4 "	520.76
Paisley.....	6 "	3,090.98	Port Perry R.P.D.....	8 "	902.88
Penetanguishene.....	14 "	26,579.26	Ripley R.P.D.....	5 "	17.79
Port McNicoll.....	11 "	2,134.64	Shelburne R.P.D.....	5 "	227.71
Port Perry.....	6 "	4,490.51	Sparrow Lake R.P.D.....	6 "	1,658.48
Priceville.....	6 "	493.45	Tara R.P.D.....	6 "	728.29
Ripley.....	6 "	2,463.62	Thornton R.P.D.....	1 "	23.60
Shelburne.....	9 "	6,820.74	Utterson R.P.D.....	1 "	99.47
Stayner.....	12 "	5,822.33	Uxbridge R.P.D.....	6 "	903.47
Sunderland.....	11 "	4,689.94	Walkerton Quarry R.P.D.	9 "	190.92
Tara.....	7 "	3,314.63	Wasaga R.P.D.....	8 "	3,612.73
Teeswater.....	6 "	4,292.74	Wroxeter R.P.D.....	2 "	620.53
Thornton.....	7 "	1,235.99			593,883.09

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

GEORGIAN BAY SYSTEM

Reserve for Sinking Fund—October 31, 1930

Total provision for sinking fund to October 31, 1929 \$504,364.41

Provided in the year ending October 31, 1930:

By charges included in the cost of power delivered to municipalities and rural power districts	\$59,397.99	
By charges included in the costs of distribution of power within rural power districts.....	3,368.40	
By charges against contracts with private companies which purchased power.....	6,577.71	
Interest at 4% per annum on the amount standing at the credit of the account.....	20,174.58	
		89,518.68
		<u>\$593,883.09</u>

WALKERTON AND

Operating Account for the Period

COST OF OPERATION

Cost of operating and maintaining generating plants, transmission lines, stations and distribution systems.....	\$10,622.85	
Power purchased.....	4,122.68	
Taxes—municipal and provincial.....	1,540.64	
Commercial expenses.....	3,599.59	
General and administrative expenses.....	5,506.62	
Provision for doubtful debts.....	200.00	
		\$25,592.38
Interest on the Commission's investment in the properties.....		13,606.39
Expenses incidental to the acquisition of the properties.....		12,718.65
Provision for contingencies.....		305.61
		<u>\$52,223.03</u>

GEORGIAN BAY RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1930

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brechin	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals	2,807.43	153.99	50.54	56.15	28.07	288.75

GEORGIAN BAY RURAL LINES

Statement showing the Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1930

Lines operated by	Period of years ending October 31, 1930	Amount
		\$ c.
Brechin	12 years	224.01
Flesherton	13 "	388.19
Total		612 20

SAUGEEN PROPERTIES

31st March to 31st October, 1930

REVENUE FOR PERIOD

Power and light sold to consumers on the four distribution systems, and to private Companies	\$ 51,566.62
Net profit on purchase and sale of electric appliances and merchandise	483.08
Miscellaneous	173.33

\$52,223.03

EASTERN ONTARIO

Operating Account for Year

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$522,732.86
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation, transmission and distribution equipment.....	\$868,731.20	
Rural power districts.....	66,035.16	
		<u>934,766.36</u>
Interest on capital investment in:		
Generation, transmission and distribution equipment.....	\$881,875.34	
Rural power districts.....	31,997.23	
		<u>913,872.57</u>
Provision for renewals of:		
Generation, transmission and distribution equipment.....	\$187,313.81	
Rural power districts.....	27,611.10	
		<u>214,924.91</u>
Provision for obsolescence and contingencies in respect of:		
Generation, transmission and distribution equipment.....	\$101,354.86	
Rural power districts.....	13,805.55	
		<u>115,160.41</u>
Provision for sinking funds:		
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$89,344.81	
By charges against contracts with private companies which purchase power and local distribution systems.....	62,100.17	
By charges included in the cost of distribution of power within rural power districts.....	7,390.49	
		<u>158,835.47</u>
		<u><u>\$2,860,292.58</u></u>

SYSTEM

ending October 31, 1930

REVENUE FOR PERIOD

Collected from municipalities.....	\$1,450,939.43	
Power sold to private companies and local distribution systems.....	1,340,747.89	
Collected from customers in rural power districts.....	260,299.70	
		<u>\$3,051,987.02</u>

Add:

Amounts due by certain municipalities being the difference between the sums paid and the cost of power supplied to them in the year	\$4,146.82	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year	9,784.84	
		<u>13,931.66</u>
		<u>\$3,065,918.68</u>

Deduct:

Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$62,930.12	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	25,451.07	
		<u>88,381.19</u>

Revenue.....\$2,977,537.49

Deduct:

Profit from power sold to local distribution systems, transferred to the credit of obsolescence and contingency reserve.....	117,244.91	
		<u>\$2,860,292.58</u>

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria.....		60.00	112,668.33	213.7	943.17	3,145.33	5,163.23
Apple Hill.....	55.00	60.00	10,467.00	28.0	123.58	570.64	471.73
Athens.....	89.27	80.00	32,834.16	74.9	330.57	1,074.82	1,525.92
Belleville.....		32.00	723,812.07	3,484.5	15,378.86	27,709.31	34,142.72
Bloomfield.....		60.00	35,935.73	86.4	381.33	1,450.80	1,668.74
Brighton.....		35.00	57,113.62	220.0	970.97	2,159.03	2,682.32
Brockville.....		30.00	409,421.91	2,056.2	9,075.05	20,392.75	19,135.70
Cardinal.....		37.50	12,620.14	24.6	108.57	649.09	320.73
Carleton Place.....	40.00	35.00	222,291.84	922.7	4,072.34	7,733.25	10,199.40
Chesterville.....		40.00	64,362.46	224.1	989.07	2,612.86	2,998.02
Finch.....	74.00	65.00	21,714.44	42.8	188.90	755.31	1,014.47
Havelock.....	48.00	45.00	78,857.88	241.4	1,065.42	2,945.34	3,676.17
Kemptville.....	45.00	40.00	63,758.50	225.9	997.01	2,119.00	2,997.75
Lakefield.....		48.00	50,952.25	189.0	834.15	2,221.38	2,384.29
Lanark.....	60.00	55.00	20,807.89	55.7	245.83	581.89	958.42
Lancaster.....		97.00	36,467.81	45.2	199.49	1,032.59	1,671.08
Lindsay.....		40.00	401,830.74	1,485.7	6,557.14	17,548.41	18,824.07
Madoc.....		44.44	36,457.67	118.0	520.79	2,739.13	1,718.85
Marmora.....	50.00	48.00	25,865.97	83.4	368.09	1,237.32	1,207.47
Martintown.....	55.00	50.00	7,388.14	23.3	102.83	488.86	341.93
Maxville.....		86.00	30,630.90	54.5	240.54	951.45	1,382.17
Napanee.....		35.00	217,809.29	924.8	4,081.61	9,915.38	10,249.47
Norwood.....	40.00	37.00	31,639.06	127.5	562.72	1,484.32	1,483.34
Oshawa.....		34.00	2,412,491.46	9,722.1	42,908.54	84,857.91	113,070.09
Ottawa.....			412,629.76	3,418.0	15,085.36	20,396.78	19,912.94
".....			964.71	18,975.8	208,734.13	1,178.05	43.03
Perth.....	40.00	35.00	183,181.89	861.5	3,802.23	7,219.12	8,618.22
Peterborough.....		30.00	1,260,692.20	6,186.8	27,305.48	41,091.31	59,407.20
Pictou.....		48.00	263,792.72	759.6	3,352.50	7,557.13	12,287.37
Port Hope.....		38.00	280,264.45	1,193.0	5,265.31	13,547.62	13,270.10
Prescott.....		30.00	130,419.52	706.1	3,116.38	7,239.84	6,119.02
Richmond.....	84.50	65.00	11,279.30	38.5	808.69	190.16	516.20
Russell.....	75.00	70.00	27,919.50	55.1	243.18	856.74	1,300.98
Smiths Falls.....	35.00	30.00	278,779.15	1,570.6	6,931.85	10,651.07	13,015.84
Stirling.....		28.60	37,647.94	194.3	857.54	1,924.64	1,787.23
Warkworth.....		50.00	17,293.96	58.6	258.63	829.23	807.90
Wellington.....	50.00	48.00	46,148.55	142.1	627.16	1,545.58	2,152.21
Whitby.....		36.00	225,851.88	898.6	3,965.98	7,242.61	10,569.65
Williamsburg.....	55.00	45.00	9,298.79	35.9	158.44	483.38	429.10
Winchester.....		40.00	55,087.95	218.0	962.14	2,454.93	2,602.30

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,942.99	548.89	1,158.20	355.96	13,257.77	12,820.00		437.77
164.17	49.32	104.15	46.64	1,530.23	1,654.70	124.47	
548.78	159.32	336.32	124.76	4,100.49	6,112.80	2,012.31	
6,217.71	7,786.60	7,162.53	5,804.20	104,201.93	111,503.69	7,301.76	
513.99	283.03	367.04	143.92	4,808.85	5,182.00	373.15	
620.78	548.67	572.37	366.46	7,920.60	7,699.68		220.92
5,243.74	1,918.53	4,061.88	3,425.05	63,252.70	61,686.63		1,566.07
101.07	32.52	68.78	40.98	1,321.74	921.23		400.51
3,073.18	1,019.92	2,189.55	1,536.96	29,824.60	33,110.22	3,285.62	
985.56	312.61	660.69	373.29	8,932.10	8,965.21	33.11	
376.66	106.82	225.39	71.30	2,738.85	2,834.46	95.61	
1,004.92	682.99	798.51	402.10	10,575.45	10,990.25	414.80	
970.14	304.14	650.70	376.28	8,415.02	9,225.27	810.25	
571.02	480.79	511.58	314.82	7,318.03	9,071.44	1,753.41	
335.94	99.17	211.38	92.78	2,525.41	3,112.72	587.31	
663.71	179.28	378.05	75.30	4,199.50	4,385.98	186.48	
4,524.35	3,788.34	4,040.20	2,474.76	57,757.27	59,428.89	1,671.62	
455.20	324.85	371.34	196.55	6,326.71	5,242.04		1,084.67
319.89	229.14	261.50	138.92	3,762.33	4,032.46	270.13	
113.93	35.37	74.73	38.81	1,196.46	1,182.65		13.81
524.70	147.28	310.74	90.78	3,647.66	4,688.37	1,040.71	
2,161.86	2,194.52	2,170.35	1,540.46	32,313.65	32,366.99	53.34	
330.55	310.67	316.33	212.38	4,700.31	4,788.58	88.27	
25,160.62	23,678.57	24,097.51	16,194.29	329,967.53	330,550.23	582.70	
3,374.99	1,775.82	3,894.04	5,693.43	70,133.36	76,904.78	6,771.42	
19.29	4.82	10.16		209,989.48	209,989.48		
2,468.25	851.99	1,833.15	1,435.02	26,227.98	30,878.86	4,650.88	
10,548.29	13,702.44	12,458.51	10,305.47	174,818.70	185,602.50	10,783.80	
3,475.96	2,227.57	2,677.85	1,265.28	32,843.66	36,460.00	3,616.34	
2,809.85	2,836.19	2,810.84	1,987.20	42,527.11	45,332.72	2,805.61	
1,591.08	606.42	1,284.48	1,176.16	21,133.38	21,181.75	48.37	
225.59	56.40	118.77		1,915.81	2,627.16	711.35	
484.21	137.35	289.80	91.77	3,404.03	3,901.74	497.71	
3,314.07	1,256.82	2,717.70	2,616.18	40,503.53	48,412.03	7,908.50	
294.44	421.12	371.87	323.65	5,980.49	5,557.42		423.07
206.97	156.55	174.37	97.61	2,531.26	2,928.71	397.45	
586.25	400.71	467.25	236.70	6,015.86	6,858.51	842.65	
2,380.28	2,202.25	2,256.10	1,496.82	30,113.69	32,350.89	2,237.20	
133.84	44.07	93.18	59.80	1,401.81	1,676.43	274.62	
808.30	266.49	563.50	363.13	8,020.79	8,719.96	699.17	

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
			\$ c.		\$ c.	\$ c.	\$ c.
RURAL POWER DISTRICTS							
Alexandria R.P.D.—Lochiel twp...			5,773.21	10.0	44.14	144.31	261.83
Belleville R.P.D.—Sidney, Thurlow and Tyendinaga twps.....			40,011.61	185.5	818.70	1,447.44	1,882.88
Bowmanville R.P.D.—Darlington twp.....			8,164.78	33.4	147.41	343.50	383.81
Brighton R.P.D.—Brighton and Murray twps.....			3,063.37	11.8	52.08	119.40	143.87
Brockville R.P.D.—Leeds, Lansdowne Front, Escott Front, Yonge Front, Elizabethtown, Leeds, Lansdowne Rear, Augusta, Yonge and Escott Rear twps.....			45,986.66	180.6	797.08	2,221.05	2,150.93
Campbellford R.P.D.—Seymour and Rawdon twps.....			11,495.65	56.3	248.48	345.62	541.15
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabruck twps.			28,349.82	82.7	364.99	910.81	1,326.54
Cobourg R.P.D.—Haldimand, Hamilton and Alnwick twps.....			30,001.72	108.2	477.54	800.34	1,400.15
Colborne R.P.D.—Haldimand and Cramahe twps.....			11,995.79	47.8	210.97	368.16	561.80
Deseronto R.P.D.—Richmond twp.			250.77	0.7	3.09	11.01	11.69
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester and Gower S. twps.....			18,493.22	118.5	523.00	838.21	885.47
Kingston R.P.D.—Ernestown, Portland, Kingston, Loughborough and Pittsburg twps.....			33 457.96	92.2	1,061.42	930.44	1,485.74
Lakefield R.P.D.—Smith twp.....			140.75	0.7	3.09	10.58	6.62
Lindsay R.P.D.—Fenelon twp.....			108.18	0.4	1.77	4.66	5.12
Martintown R.P.D.—Charlottenburg and Lancaster twps.....			17,067.38	40.1	176.98	622.11	781.21
Maxville R.P.D.—Roxborough, Kenyon, Plantagenet N. and Plantagenet S. twps.....			24,447.62	67.4	297.47	755.27	1,105.30
Millbrook R.P.D.—Manvers and Cavan twps.....			3,702.13	8.5	37.51	166.76	140.23
Napanee R.P.D.—Fredericksburg N., Richmond and Camden E. twps.....			17,602.54	67.0	295.70	808.16	825.88
Nepean R.P.D.—March, Nepean, Coulburn, Gower N., Gloucester and Osgoode twps.....			7,019.53	369.3	7,755.28	274.31	297.96
Newcastle R.P.D.—Clarke, Darlington and Manvers twps.....			8,907.70	28.2	124.46	275.73	388.56

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
98.43	27.57	58.15	16.66	651.09	651.09	see page	229
360.80	421.95	396.99	308.99	5,637.75	5,637.75	"	"
84.12	80.77	81.56	55.64	1,176.81	1,176.81	"	"
33.30	29.43	30.70	19.66	428.44	428.44	"	"
660.06	218.38	461.81	300.83	6,810.14	6,810.14	"	"
96.46	124.80	113.62	93.78	1,563.91	1,563.91	"	"
453.01	137.69	290.84	137.76	3,621.64	3,621.64	"	"
343.26	279.34	301.48	180.23	3,782.34	3,782.34	"	"
126.62	117.15	120.01	79.62	1,584.33	1,584.33	"	"
3.35	2.10	2.55	1.17	34.96	34.96	"	"
199.13	84.80	179.82	197.39	2,907.82	2,907.82	"	"
419.08	269.67	323.54	153.58	4,643.47	4,643.47	"	"
1.15	1.54	1.39	1.17	25.54	25.54	"	"
1.22	1.03	1.10	0.66	15.56	15.56	"	"
283.10	82.62	174.42	66.80	2,187.24	2,187.24	"	"
377.68	114.34	241.51	112.27	3,003.84	3,003.84	"	"
39.95	25.18	30.52	14.16	454.31	454.31	"	"
193.07	168.11	176.43	111.60	2,578.95	2,578.95	"	"
140.38	35.09	73.92	.....	8,576.94	8,576.94	"	"
99.41	75.29	83.81	46.97	1,094.23	1,094.23	"	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
			\$ c.		\$ c.	\$ c.	\$ c.
Norwood R.P.D.—Asphodel, Seymour, Methuen and Dummer twps.			2,440.60	8.0	35.31	88.24	114.06
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps.			86,436.19	347.9	1,535.46	3,083.75	4,047.44
Peterborough R.P.D.—Cavan, Monaghan N., Smith, Douro and Otonabee twps.			103,140.60	481.2	2,123.78	3,628.72	4,760.05
Pickering R.P.D.—Pickering and Whitby twps.			30,599.14	120.1	530.06	1,344.41	1,431.57
Port Hope R.P.D.—Hope and Hamilton twps.			10,023.97	41.5	183.16	496.68	472.92
Prescott R.P.D.—Augusta, Edwardsburg twps.			30,533.38	156.9	692.48	1,926.75	1,433.37
Smiths Falls R.P.D.—Crosby S., Bastard, Burgess S., Kitley, Montague and Wolford twps.			23,040.80	98.4	434.29	742.42	1,081.05
Stirling R.P.D.—Rawdon and Sidney twps.			1,768.80	9.2	40.60	75.88	83.99
Trenton R.P.D.—Sidney and Murray twps.			2,061.97	10.5	46.34	73.22	94.16
Warkworth R.P.D.—Percy twp.			417.86	1.8	7.94	22.42	19.63
Wellington R. P. D.—Hillier, Ameliasburg and Hallowell twps.			20,682.53	51.0	225.53	627.88	897.15
Williamsburg R.P.D.—Matilda and Williamsburg twps.			1,476.05	11.0	203.88	196.80	68.40
Totals—Municipalities.			8,359,451.53	55,986.9	372,721.57	320,784.36	392,127.37
Totals—Rural Power Districts.			628,662.28	2,846.8	19,499.99	23,705.04	29,090.53
Totals—Companies.			5,577,751.11	20,896.5	92,226.81	231,542.81	262,994.17
Totals—Public Utilities owned by the Commission.			4,256,046.81	11,752.0	38,284.49	292,698.99	197,663.27
			18,821,911.73				
Campbellford Pulp Mill.			52,559.93				
Non-operating capital.			69,337.34				
Grand totals.			18,943,809.00	91,482.2	522,732.86	868,731.20	881,875.34

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
29.86	21.75	24.66	13.32	327.20	327.20	see page	229
903.51	848.11	863.97	579.50	11,861.74	11,861.74	"	"
881.37	1,081.00	1,001.09	801.54	14,277.55	14,277.55	"	"
326.40	296.40	305.89	200.05	4,434.78	4,434.78	"	"
103.24	100.03	100.67	69.13	1,525.83	1,525.83	see page	231
384.62	142.53	301.78	261.35	5,142.88	5,142.88	"	"
319.12	106.63	228.98	163.91	3,076.40	3,076.40	"	"
13.66	19.87	17.46	15.33	266.79	266.79	"	"
15.03	22.53	19.63	17.49	288.40	288.40	"	"
4.09	4.25	4.17	3.00	65.50	65.50	"	"
264.08	157.42	196.05	85.12	2,453.23	2,453.23	"	"
22.41	7.05	14.90	8.16	521.60	521.60	"	"
89,647.12	72,168.35	83,121.39	61,585.97	1,392,156.13	1,450,939.43	62,930.12	4,146.82
7,280.97	5,104.42	6,223.42	4,116.84	95,021.21	95,021.21	.....	.....
44,708.94	17,253.63	43,309.46	(65,702.81)	626,333.01	626,333.01	.....	.....
45,676.78	6,828.46	18,790.71	.....	599,942.70	717,187.61	117,244.91	*
187,313.81	101,354.86	151,444.98	.....	2,713,453.05	2,889,481.26	.....	.....

*Transferred to credit of obsolescence and contingencies.

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

Districts and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Alexandria R.P.D.—Lochiel twp.	10,765.35	5,382.67	5,382.68	651.09
Belleville R.P.D.—Sidney, Thurlow and Tyendinaga twps.	105,987.96	52,604.50	53,383.46	5,637.75
Bowmanville R.P.D.—Darlington twp.	13,689.55	6,844.78	6,844.77	1,176.81
Brighton R.P.D.—Brighton and Murray twps.	3,218.92	1,609.46	1,609.46	428.44
Brockville R.P.D.—Leeds front, Lansdowne front, Escott front, Yonge front, Elizabethtown, Leeds rear, Lansdowne rear, Augusta, Yonge rear and Escott rear twps.	158,444.01	76,564.58	81,879.43	6,810.14
Campbellford R.P.D.—Seymour and Rawdon twps.	24,751.24	12,375.62	12,375.62	1,563.91
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabrock twps.	*88,388.69	41,643.19	46,745.50	3,621.64
Cobourg R.P.D.—Haldimand, Hamilton and Alnwick twps.	123,140.41	60,872.23	62,268.18	3,782.34
Colborne R.P.D.—Haldimand and Cramahe twps.	32,320.82	16,160.41	16,160.41	1,584.33
Deseronto R.P.D.—Richmond twp.	652.03	326.01	326.02	34.96
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester and Gower S. twps. .	155,074.31	77,240.15	77,834.16	2,907.82
Kingston R.P.D.—Ernestown, Portland, Kingston, Loughborough and Pittsburgh twps.	106,158.83	52,847.70	53,311.13	4,643.47
Lakefield R.P.D.—Smith twp.	*315.82	134.57	181.25	25.54
Lindsay R.P.D.—Fenelon twp.	1,735.99	867.99	868.00	15.56
Martintown R.P.D.—Charlottenburg and Lancaster twps.	31,808.66	15,904.33	15,904.33	2,187.24
Maxville R.P.D.—Roxborough, Kenyon, Plantagenet N. and Plantagenet S. twps. .	79,223.85	39,611.93	39,611.92	3,003.84
Millbrook R.P.D.—Manvers and Cavan twps.	17,722.01	8,861.01	8,861.00	454.31
Napanee R.P.D.—Fredericksburg N., Richmond and Camden E. twps.	*25,799.89	12,605.56	13,194.33	2,578.95
Nepean R.P.D.—March, Nepean, Coulbourn, Gower N., Gloucester and Osgoode twps. .	*185,855.88	88,503.61	97,352.27	8,576.94
Newcastle R.P.D.—Clarke, Darlington and Manvers twps.	*36,200.28	17,207.54	18,992.74	1,094.23
North Bay R.P.D.—East Ferris, West Ferris and Widdifield twps.	17,791.32	8,611.03	9,180.29	2,772.73
Norwood R.P.D.—Asphodel, Seymour, Methuen and Dummer twps.	12,060.59	6,030.30	6,030.29	327.20
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps.	146,954.63	72,361.76	74,592.87	11,861.74
Peterborough R.P.D.—Cavan, Monaghan N. Smith, Douro and Otonabee twps.	141,800.28	70,900.14	70,900.14	14,277.55
Pickering R.P.D.—Pickering and Whitby twps.	31,565.16	15,782.58	15,782.58	4,434.78

Items marked * include portions of transmission lines for purposes of rural power districts.

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,317.76	218.29	190.47	95.24	50.14	2,522.99	1,287.37	.....	1,235.62
3,526.69	1,833.80	1,607.91	803.95	425.33	13,835.43	19,197.95	5,362.52	.....
226.94	210.89	184.02	92.01	48.44	1,939.11	2,048.30	109.19	.....
447.63	73.78	64.38	32.19	16.95	1,063.37	1,018.96	.....	44.41
4,875.56	2,666.17	2,260.77	1,130.38	616.32	18,359.34	20,022.74	1,663.40	.....
883.65	546.49	476.85	238.42	125.53	3,834.85	3,414.30	.....	420.55
2,720.98	1,683.19	1,403.07	701.54	393.03	10,523.45	12,399.90	1,876.45	.....
2,961.84	2,628.87	2,299.50	1,149.75	606.82	13,429.12	13,580.36	151.24	.....
722.99	436.82	381.16	190.58	100.34	3,416.22	3,647.82	231.60	.....
4.19	11.21	9.78	4.89	2.57	67.60	109.72	42.12	.....
3,348.65	1,184.38	1,035.44	517.72	273.10	9,267.11	8,199.37	.....	1,067.74
4,175.61	945.05	827.49	413.75	218.59	11,223.96	9,368.71	.....	1,855.25
5.86	7.11	5.27	2.64	1.63	48.05	37.53	.....	10.52
18.44	9.94	8.67	4.34	2.28	59.23	30.24	.....	28.99
1,274.49	690.18	602.23	301.12	158.54	5,213.80	6,406.05	1,192.25	.....
2,880.17	1,500.02	1,308.88	654.44	344.56	9,691.91	8,119.56	.....	1,572.35
149.93	132.82	115.89	57.95	30.51	941.41	690.00	.....	251.41
1,245.75	596.14	508.40	254.20	136.94	5,320.38	5,930.36	609.98	.....
6,576.14	4,218.76	3,504.20	1,752.08	969.07	25,597.19	28,241.85	2,644.66	.....
594.83	618.76	510.01	255.00	142.66	3,215.49	3,863.04	647.55	.....
682.75	395.66	351.04	175.52	93.93	4,471.63	6,318.22	1,846.59	.....
516.07	217.01	189.36	94.67	49.85	1,394.16	1,052.89	.....	341.27
8,027.22	2,940.77	2,588.23	1,294.12	687.21	27,399.29	28,415.50	1,016.21	.....
5,531.85	2,620.24	2,286.35	1,143.17	601.88	26,461.04	28,256.05	1,795.01	.....
1,142.40	682.98	595.95	297.97	156.88	7,310.96	9,674.15	2,363.19	.....

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

Districts and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
Port Hope R.P.D. —Hope and Hamilton twps.	\$ 25,189.06	\$ 12,594.53	\$ 12,594.53	\$ 1,525.83
Prescott R.P.D. —Augusta and Edwardsburg twps.	54,572.93	27,102.97	27,469.96	5,142.88
Smiths Falls R.P.D. —Crosby S., Bastard, Burgess S., Kitley, Montague and Wolford twps.	98,981.54	48,279.73	50,701.81	3,076.40
Stirling R.P.D. —Rawdon and Sidney twps.	42,001.14	21,000.57	21,000.57	266.79
Trenton R.P.D. —Sidney and Murray twps.	8,627.97	4,313.99	4,313.98	288.40
Warkworth R.P.D. —Percy twp.	*1,357.96	538.90	819.06	65.50
Wellington R.P.D. —Hillier, Ameliasburg and Hallowell twps.	*116,881.30	58,219.30	58,662.00	2,453.23
Williamsburg R.P.D. —Matilda and Williamsburg twps.	20,677.98	10,338.99	10,338.99	521.60
	1,919,716.36		975,473.73	
Non-operating capital.	108,295.39		108,295.39	
Totals.	2,028,011.75	944,242.63	1,083,769.12	97,793.94

Items marked * include portions of transmission lines for purposes of rural power districts.

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
680.31	511.45	446.28	223.14	117.48	3,504.49	4,332.47	827.98	.....
3,526.40	1,217.16	1,065.73	532.86	281.52	11,766.55	14,157.53	2,390.98	.....
4,975.14	1,778.14	1,558.17	779.10	411.94	12,578.89	10,978.64	.....	1,600.25
518.60	171.84	149.94	74.97	39.47	1,221.61	1,143.35	.....	78.26
406.48	98.55	85.99	43.00	22.64	945.06	1,625.21	680.15	.....
21.22	36.33	26.10	13.05	8.35	170.55	102.33	.....	68.22
1,393.01	848.71	731.71	365.86	194.95	5,987.47	5,453.12	.....	534.35
655.61	265.72	231.86	115.93	61.04	1,851.76	1,176.11	.....	675.65
66,035.16	31,997.23	27,611.10	13,805.55	7,390.49	244,633.47	260,299.70	25,451.07	9,784.84
Net credit							\$15,666.23	

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	Jan., 1921	328.64			328.64
Apple Hill.....	April, 1921		222.46		
Athens.....	Jan., 1929	455.34			455.34
Belleville.....	April, 1929	3,702.63			3,702.63
Bloomfield.....	April, 1919	267.33			267.33
Brighton.....	Nov., 1929				
Brockville.....	April, 1915	1,043.08			1,043.08
Cardinal.....	July, 1930				
Carleton Place.....	May, 1919	10,341.46			10,341.46
Chesterville.....	April, 1914	241.44			241.44
Finch.....	Feb., 1928	712.18			712.18
Havelock.....	Feb., 1921	1,837.65			1,837.65
Kemptville.....	Dec., 1921	2,222.39			2,222.39
Lakefield.....	Aug., 1920	466.03			466.03
Lanark.....	Sept., 1921	801.24			801.24
Lancaster.....	May, 1921		8,436.47	500.00	
Lindsay.....	Mar., 1928		296.82	296.82	
Madoc.....	Jan., 1930				
Marmora.....	Jan., 1921	146.63			146.63
Martintown.....	May, 1921	208.03			208.03
Maxville.....	Feb., 1921		372.58	372.58	
Napanee.....	Nov., 1929				
Norwood.....	Feb., 1921	706.03			706.03
Oshawa.....	Feb., 1929	954.48			954.48
Ottawa.....	Jan., 1914				
Perth.....	Feb., 1919	9,819.51			9,819.51
Peterboro.....	Mar., 1913	12,726.04			13,063.54
Picton.....	April, 1919	1,421.25			1,421.25
Port Hope.....	Nov., 1929				
Prescott.....	Dec., 1913	1,224.18			1,224.18
Richmond.....	Aug., 1928	862.82			862.82
Russell.....	Feb., 1926	493.27			493.27
Smiths Falls.....	Sept., 1918	15,718.49			15,718.49
Stirling.....	Jan., 1930				
Warkworth.....	Oct., 1923	308.76			308.76
Wellington.....	April, 1919	754.22			754.22
Whitby.....	Jan., 1926	1,317.66			1,317.66
Williamsburg.....	April, 1915	535.11			535.11
Winchester.....	Jan., 1914	326.63			326.63

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Charge	Credit
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8.36			437.77		429.41
	8.90	124.47			106.89
10.63		2,012.31		2,022.94	
98.20		7,301.76		7,399.96	
7.09		373.15		380.24	
			220.92		220.92
24.69			1,566.07		1,541.38
			400.51		400.51
319.49		3,285.62		3,605.11	
6.14		33.11		39.25	
16.62		95.61		112.23	
51.71		414.80		466.51	
57.70		810.25		867.95	
18.47		1,753.41		1,771.88	
20.92		587.31		608.23	
	335.87	186.48			8,085.86
7.32		1,671.62		1,678.94	
			1,084.67		1,084.67
3.89		270.13		274.02	
5.64			13.81		8.17
	9.51	1,040.71		1,031.20	
		53.34		53.34	
23.18		88.27		111.45	
25.31		582.70		608.01	
		6,771.42		6,771.42	
275.45		4,650.88		4,926.33	
337.50		10,783.80		10,783.80	
33.80		3,616.34		3,650.14	
		2,805.61		2,805.61	
31.66		48.37		80.03	
14.37		711.35		725.72	
11.55		497.71		509.26	
484.13		7,908.50		8,392.63	
			423.07		423.07
7.42		397.45		404.87	
15.66		842.65		858.31	
34.94		2,237.20		2,272.14	
16.80		274.62		291.42	
8.30		699.17		707.47	

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjust- ments made during the year	
		Credit	Charge	Credited	Charged
RURAL POWER DISTRICT*		\$	c.	\$	c.
Alexandria R.P.D.	Dec., 1929				
Belleville R.P.D.	Sept., 1927	7,552.54			
Bowmanville R.P.D.	Jan., 1924	85.08			
Brighton R.P.D.	Nov., 1929				
Brockville R.P.D.	Nov., 1921		1,018.13		42.27
Campbellford R.P.D.	Aug., 1924		253.43		
Chesterville R.P.D.	Nov., 1921	3,295.67			
Cobourg R.P.D.	Feb., 1927	204.87			
Colborne R.P.D.	Aug., 1925	1,919.14			
Deseronto R.P.D.	Mar., 1930				
Iroquois R.P.D.	July, 1930				
Kingston R.P.D.	Jan., 1923	248.62			
Lakefield R.P.D.	July, 1928		14.08		
Lindsay R.P.D.	July, 1930				
Martintown R.P.D.	Jan., 1922		721.97		
Maxville R.P.D.	Dec., 1927	1,043.35			
Millbrook R.P.D.	July, 1930				
Napanee R.P.D.	Nov., 1927		132.81		
Nepean R.P.D.	Feb., 1922	2,138.78			73.10
Newcastle R.P.D.	Sept., 1927	326.06			
North Bay R.P.D.	June, 1927	2,032.47			
Norwood R.P.D.	Jan., 1929	8.89			
Oshawa R.P.D.	April, 1918	15,706.07			
Peterboro R.P.D.	Jan., 1927	9,313.64			
Pickering R.P.D.	Jan., 1926	5,941.30			
Port Hope R.P.D.	Aug., 1927	439.46			
Prescott R.P.D.	June, 1922		1,413.01		36.97
Smiths Falls R.P.D.	May, 1929		662.29		
Stirling R.P.D.	Nov., 1929				
Trenton R.P.D.	Jan., 1924	1,425.54			
Warkworth R.P.D.	Nov., 1928	28.96			
Wellington R.P.D.	Nov., 1925	257.83			
Williamsburg R.P.D.	Feb., 1923		149.81		
		121,910.79	13,693.86	1,169.40	70,432.36

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
302.40		5,362.52	1,235.62	13,217.16	1,235.62
3.40		109.19		197.67	
			44.41		44.41
	40.73	1,663.40		562.27	
	10.14		420.55		684.12
131.83		1,876.45		5,303.95	
8.19		151.24		364.30	
76.77		231.60		2,227.51	
		42.12		42.12	
			1,067.74		1,067.74
9.94			1,855.25		1,596.69
	0.56		10.52		25.16
			28.99		28.99
	28.88	1,192.25		441.40	
41.74			1,572.35		487.26
	5.31	609.98	251.41		251.41
85.06		2,644.66		471.86	
13.04		647.55		4,795.40	
				986.65	
81.30		1,846.59		3,960.36	
0.36			341.27		332.02
628.24		1,016.21		17,350.52	
372.55		1,795.01		11,481.20	
237.65		2,363.19		8,542.14	
17.58		827.98		1,285.02	
	57.27	2,390.98		883.73	
	26.49		1,600.25		2,289.03
			78.26		78.26
57.02		680.15		2,162.71	
1.16			68.22		38.10
10.31			534.35		266.21
	5.99		675.65		831.45
4,055.18	529.65	88,381.19	13,931.66	138,486.38	21,557.35

EASTERN ONTARIO SYSTEM

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929:		
Eastern Ontario system.....	\$3,138,378.44	
Ottawa system.....	13,796.42	
Service buildings.....	10,525.69	
		<u>\$3,162,700.55</u>
Expenditures to October 31, 1929:		
Eastern Ontario system.....	\$736,561.35	
Ottawa system.....	721.27	
		<u>737,282.62</u>
Balance brought forward at October 31, 1929.....		\$2,425,417.93
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$ 96,928.09	
Amounts included in the costs of distribution of power within rural power districts.....	27,611.10	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution systems and pulp mill.....	91,436.92	
Reserve provided in respect of equipment purchased.....	1,966.00	
Interest at 4% per annum on the monthly balances at the credit of the account.....	97,083.53	
		<u>315,025.64</u>
		<u>\$2,740,443.57</u>
Deduct:		
Expenditures during the year ending October 31, 1930.....	\$28,314.39	
Accumulated reserves for renewals in respect of local distribution systems sold to municipalities during the year.....	72,122.74	
		<u>100,437.13</u>
Balance carried forward October 31, 1930.....		<u><u>\$2,640,006.44</u></u>

EASTERN ONTARIO SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward at October 31, 1929:		
Eastern Ontario system.....	\$746,958.99	
Ottawa system.....	7,548.14	
		<u>\$754,507.13</u>
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$77,272.77	
Amount included in the costs of distribution of power within rural power districts.....	13,805.55	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution systems.....	24,082.09	
Net profit from operation of local distribution systems and from the sale of old equipment.....	111,177.26	
Interest at 4% per annum on monthly balances at the credit of the account.....	30,180.28	
		<u>256,517.95</u>
		<u>\$1,011,025.08</u>
Deduct:		
Expenditures during the year ending October 31, 1930.....		<u>\$16.07</u>
Balance carried forward October 31, 1930.....		<u><u>\$1,010,209.01</u></u>

EASTERN ONTARIO SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount	Rural Power District	Period of years ending Oct. 31, 1930	Amount
		\$ c.			\$ c.
Alexandria.....	6 years	12,070.02	RURAL POWER DISTRICT*		
Apple Hill.....	6 "	1,130.13			
Athens.....	2 "	962.76	Alexandria R.P.D.....	1 years	123.73
Belleville.....	2 "	21,957.90	Belleville R.P.D.....	2 "	2,116.96
Bloomfield.....	2 "	1,160.13	Bowmanville R.P.D.....	2 "	216.09
Brighton.....	1 "	1,030.07	Brighton R.P.D.....	1 "	65.88
Brockville.....	10 "	61,515.00	Brockville R.P.D.....	9 "	3,983.94
Cardinal.....	1 "	106.78	Campbellford R.P.D.....	2 "	696.67
Carleton Place.....	6 "	25,408.63	Chesterville R.P.D.....	9 "	2,670.02
Chesterville.....	11 "	12,969.45	Cobourg R.P.D.....	2 "	2,078.80
Finch.....	3 "	924.79	Colborne R.P.D.....	2 "	634.86
Havelock.....	2 "	2,686.16	Deseronto R.P.D.....	1 "	6.19
Kemptville.....	6 "	6,076.09	Iroquois R.P.D.....	1 "	636.00
Lakefield.....	2 "	1,883.15	Kingston R.P.D.....	2 "	1,118.93
Lanark.....	6 "	1,950.47	Lakefield R.P.D.....	2 "	8.85
Lancaster.....	6 "	2,736.92	Lindsay R.P.D.....	1 "	4.00
Lindsay.....	2 "	14,841.22	Martintown R.P.D.....	9 "	2,524.61
Madoc.....	1 "	553.64	Maxville R.P.D.....	3 "	1,417.65
Marmora.....	2 "	915.95	Millbrook R.P.D.....	1 "	74.16
Martintown.....	6 "	698.06	Napanee R.P.D.....	2 "	454.04
Maxville.....	6 "	3,341.22	Nepean R.P.D.....	9 "	4,979.72
Napanee.....	1 "	4,018.84	Newcastle R.P.D.....	2 "	390.26
Norwood.....	2 "	1,209.91	North Bay R.P.D.....	1 "	93.93
Oshawa.....	2 "	81,657.92	Norwood R.P.D.....	2 "	119.37
Ottawa.....	15 "	9,694.63	Oshawa R.P.D.....	2 "	4,590.66
Perth.....	6 "	21,085.72	Peterboro R.P.D.....	2 "	4,812.78
Peterboro.....	2 "	53,205.13	Pickering R.P.D.....	2 "	1,327.43
Picton.....	2 "	8,544.41	Port Hope R.P.D.....	2 "	494.95
Port Hope.....	1 "	5,160.64	Prescott R.P.D.....	9 "	3,518.30
Prescott.....	11 "	16,336.82	Smiths Falls R.P.D.....	2 "	955.36
Richmond.....	3 "	260.58	Stirling R.P.D.....	1 "	71.14
Russell.....	5 "	1,760.02	Trenton R.P.D.....	2 "	121.03
Smiths Falls.....	7 "	34,205.90	Warkworth R.P.D.....	2 "	22.53
Stirling.....	1 "	672.05	Wellington R.P.D.....	2 "	575.79
Warkworth.....	2 "	594.68	Williamsburg R.P.D.....	6 "	198.72
Wellington.....	2 "	1,519.30			473,502.91
Whitby.....	2 "	8,677.13			
Williamsburg.....	10 "	1,417.27			
Winchester.....	11 "	7,460.07			

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

EASTERN ONTARIO SYSTEM

Reserve for Sinking Fund, October 31, 1930

Total provision for sinking fund to October 31, 1929:		
Eastern Ontario system.....	\$298,267.74	
Ottawa system.....	4,110.88	
Service buildings.....	186.23	
		<u>\$302,564.85</u>
Provided in the year ending October 31, 1930:		
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$89,344.81	
By charges included in the costs of distribution of power within rural power districts.....	7,390.49	
By charges against contracts with private companies which purchased power, and local distribution systems.....	62,100.17	
Interest at 4% per annum on the amount standing at the credit of the account.....	12,102.59	
		<u>170,938.06</u>
		<u><u>\$473,502.91</u></u>

THUNDER BAY

Operating Account for the Year

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....	\$474.00
Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system.....	225,693.87
Interest on capital investment.....	655,340.84
Provision for renewal of generating plants, transformer stations and transmission lines.....	112,798.56
Provision for obsolescence and contingencies.....	286,252.43
Provision for sinking fund:	
By charges included in the cost of power delivered to municipalities.....	\$92,219.54
By charges against contracts with private companies which purchased power.....	44,791.78
	137,011.32
	<u>\$1,417,571.02</u>

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost: upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1, 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Fort William.....	21.00 plus transformation charges		2,630,323.12	9,861.8	71.75	36,386.16	102,189.58
Port Arthur.....	21.00 plus transformation charges		8,721,462.09	33,080.7	240.70	118,079.52	337,490.20
Nipigon twp.....	40.00 35.00		15,047.81	60.6	0.44	552.01	573.99
Totals—Municipalities.....			11,366,833.02	43,003.1	312.89	155,017.69	440,253.77
Totals—Companies.....			5,595,124.58	22,142.2	161.11	70,676.18	215,087.07
Non-operating capital.....			16,961,957.60 683,838.71				
Grand totals.....			17,645,796.31	65,145.3	474.00	225,693.8	655,340.84

SYSTEM

ending October 31, 1930

REVENUE FOR PERIOD

Collected from municipalities.....	\$958,513.19
Power sold to private companies.....	461,723.70
	<u>\$1,420,236.89</u>

Deduct:

Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period.....	2,665.87
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Revenue.....	<u>\$1,417,571.02</u>
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\$1,417,571.02

SYSTEM

COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining on be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,013.38	43,645.93	21,396.61	281.13	221,984.54	222,390.16	405.62	.....
58,899.46	145,898.80	70,702.77	943.03	732,254.48	733,944.15	1,689.67	.....
96.50	263.47	120.16	1.73	1,608.30	2,178.88	570.58	.....
77,009.34	189,808.20	92,219.54	1,225.89	955,847.32	958,513.19	2,665.87	.....
35,789.22	96,444.23	44,791.78	(1,225.89)	461,723.70	461,723.70	.....	.....
112,798.56	286,252.43	137,011.32	.....	1,417,571.02	1,420,236.89	.....	.....

THUNDER BAY

Statement showing the net Credit to each municipality in respect of power the year, also the net amount credited to each municipality in respect amount standing as a credit to each

Municipality	Date commenced operating	Net credit October 31, 1929	Payments on account of such credits
		Credit	Charged
		\$ c.	\$ c.
Fort William.....	Oct., 1926	5,494.22	5,494.22
Nipigon twp.....	Jan., 1925	823.55	823.55
Port Arthur.....	Dec., 1910	15,504.27	15,504.27
Totals.....	.....	21,822.04	21,822.04

THUNDER BAY SYSTEM**Reserve for Renewals, October 31, 1930**

Total provision for renewals to October 31, 1929.....	\$637,371.86
Deduct:	
Expenditures to October 31, 1929.....	2,125.00
Balance brought forward October 31, 1929.....	\$635,246.86
Added during the year ending October 31, 1930:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$77,009.34
Provision against equipment employed in respect of contracts with private companies which purchased power.....	35,789.22
Reserve provided in respect of second hand equipment purchased	750.24
Interest at 4% per annum on monthly balances at the credit of the account.....	25,439.89
	138,988.69
	\$774,235.55
Deduct:	
Expenditures during the year ending October 31, 1930.....	31.62
Balance carried forward October 31, 1930.....	\$774,203.93

THUNDER SYSTEM**SINKING FUND**

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending October 31, 1930	Amount
		\$ c.
Fort William.....	4 years	123,494.54
Nipigon twp.....	4 "	681.22
Port Arthur.....	4 "	439,017.04
		563,192.80

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1929; the payments thereon and interest added during of power supplied in the year ending October 31, 1930 and the accumulated municipality on October 31, 1930

Interest at 4% per annum added during the year	Net amount credited in respect of power supplied in the year ending October 31, 1930	Accumulated amount standing as a credit on October 31, 1930
Credited	Credited	Credited
\$ c. 90.92 12.98 293.94	\$ c. 405.62 570.58 1,689.67	\$ c. 496.54 583.56 1,983.61
397.84	2,665.87	3,063.71

THUNDER BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward October 31, 1929.....	\$521,483.80
Added during the year ending October 31, 1930:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$189,808.20
Provision against equipment employed in respect of contracts with private companies which purchased power.....	96,444.23
Interest at 4% per annum on monthly balances at the credit of the account.....	20,859.35
	<u>307,111.78</u>
Balance carried forward October 31, 1930.....	\$828,595.58

THUNDER BAY SYSTEM

Reserve for Sinking Fund, October 31, 1930

Total provision for sinking fund to October 31, 1929.....	\$409,789.88
Provided in the year ending October 31, 1930:	
By charges included in the cost of power delivered to municipalities.....	\$92,219.54
By charges against contracts with private companies which purchased power.....	44,791.78
Interest at 4% per annum on the amount standing at the credit of the account.....	16,391.60
	<u>153,402.92</u>
Balance carried forward October 31, 1930.....	\$563,192.80

SUDBURY DISTRICT—
Operating Account for the

COST OF OPERATION

Cost of operating and maintaining generating plants, transmission lines and stations, including water rentals and the proportion of administrative expenses of the Commission chargeable to the operation of the properties.	\$78,049.11
Engineering and other expenses in connection with arrangements for an additional supply of power for this district.	3,834.68
Interest on bonds of the Wahnapiatae Power Co. Limited, \$458,100.00, assumed by the Commission and outstanding.	\$29,785.19
Interest on the capital investment of the Commission in the Wahnapiatae properties.	108,057.91
	<u>137,843.10</u>
	\$219,726.89
Balance of cost of rebuilding dams.	96,289.31
Provision for contingencies.	10,582.50
	<u><u>\$326,598.70</u></u>

PATRICIA DISTRICT—
Operating Account for the Ten

COST OF OPERATION

Cost of operating and maintaining generating plant at Ear Falls, including water rentals and the proportion of administrative expenses chargeable to the operation of the property.	\$16,376.64
Interest on capital investment.	18,085.32
	<u><u>\$34,461.96</u></u>

WAHNA PITAE PROPERTIES

Year Ending October 31, 1930

REVENUE FOR PERIOD

Power sold at fixed rates to private consumers and to municipalities \$326,598.70

\$326,598.70

(EAR FALLS GENERATING PLANT)

Months Ending October 31, 1930

REVENUE FOR PERIOD

Power sold to private consumer \$30,069.99
Excess of operating expenses and interest over revenue 4,391.97

\$34,461.96

HYDRO-ELECTRIC POWER

Account

The Provincial

For the Year ending

Niagara and

May 16, 1930	Cash returned to the Province, being the difference between advances by the Province to the Commission and the capital expenditures made out of such advances by the Commission in the year ending October 31, 1929.....		\$1,097,312.13
Oct. 31, 1930	Repayment to the Province of the investment in the distribution systems in Belleville, Oshawa, Port Hope, Brighton and Napanee (in the former Central Ontario system) upon the sale of these properties to the municipalities.....		1,157,522.73
Oct. 31, 1930	Cash returned to the Province, being the amounts accumulated to October 31, 1928, in amortization and other reserves for the purpose of reducing the investment in certain properties and plants of the system formerly known as "Central Ontario".....		478,544.64
April 30, 1930	Paid on account of interest.....	\$4,355,856.22	
Oct. 31, 1930	Cheque to cover balance of interest for year ending October 31, 1930.....	4,416,434.49	8,772,290.71
Oct. 31, 1930	Payment under debt retirement plan.....		1,607,427.82
Oct. 31, 1930	Balance carried down.....		176,799,442.30
			<u>\$189,912,540.33</u>

COMMISSION OF ONTARIO

with

Treasurer

October 31, 1930

Other Systems

Oct. 31, 1929	Cash advances to date.....	\$173,589,916.68	
	Less repayments to that date under debt retirement plan.....	9,067,606.06	
			\$164,522,310.62
Nov. 1, 1929	Sundry cash advances.....		
to			
Oct. 31, 1930			16,617,939.00
Oct. 31, 1930	Interest for year on all cash advances.....	\$9,222,175.22	
	Less—Interest credited by Province on repayments made by Commission.....	449,884.51	
			8,772,290.71
			<u>\$189,912,540.33</u>
Nov. 1, 1930	Total cash advances.....	\$187,474,476.18	
	Less—Payments made under debt retirement plan.....	10,675,033.88	
			<u>\$176,799,442.30</u>

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Operating Account for the Year Ending October 31, 1930

EXPENDITURE

Transportation expenses.....	\$359,072.82
Maintenance—way and structures.....	58,324.48
Maintenance—equipment.....	144,618.11
Power.....	123,074.30
Rental of motor buses.....	96,583.51
General operating and management expenses.....	68,148.81
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	23,125.10
Taxes.....	5,590.40
Insurance—fire and liability.....	61,493.63
Total operating expenses.....	\$940,031.16
Interest.....	273,499.93
Provision for sinking fund.....	12,899.25
	<u>\$1,226,430.34</u>

REVENUE

Passenger.....	\$1,043,399.42
Freight and express.....	14,581.28
Miscellaneous.....	20,457.05
Total revenue.....	\$1,078,437.75
Deficit for the year charged to the municipalities.....	147,992.59
	<u>\$1,226,430.34</u>

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929.....	\$245,533.18
Deduct:	
Expenditures to October 31, 1929.....	191,847.54
Balance brought forward October 31, 1929.....	\$53,685.64
Added during the year ending October 31, 1930:	
Interest at 4% on the monthly balances to the credit of the account.....	2,147.48
	<u>\$55,833.12</u>
Deduct:	
Expenditures during the year ending October 31, 1930.....	37,480.46
Balance carried forward October 31, 1930.....	<u>\$18,352.66</u>

GUELPH RADIAL RAILWAY

Operating Account for the Year ending October 31, 1930

EXPENDITURE

Transportation expense.....	\$26,716.24	
Maintenance—way and structures.....	9,579.88	
Maintenance—equipment.....	17,882.20	
Electric power and motor fuel.....	11,607.50	
Rental of motor buses.....	555.20	
General operating and management expenses.....	7,492.11	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	2,588.05	
Insurance.....	4,413.59	
Taxes.....	514.89	
Written off valuation and other expenses, re purchase by the Commission.....	256.30	
		\$81,605.96
Interest.....		15,199.76
Provision for instalments payable to the city of Guelph on May 1, 1930, and November 1, 1930 under purchase agreement:		
Interest for year.....	\$4,392.99	
On account of principal.....	7,307.01	
		11,700.00
Provision for renewal of road and equipment.....		10,701.42
		<u>\$119,207.14</u>

REVENUE

Operating revenue.....	\$86,278.41
Net deficit for year after provision for instalments on account of principal and interest payable to the city of Guelph.....	32,928.73
	<u>\$119,207.14</u>

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929.....	\$41,344.47
Deduct:	
Expenditures to October 31, 1929.....	8,770.39
Balance brought forward October 31, 1929.....	\$32,574.08
Added during the year ending October 31, 1930:	
By appropriation for the year.....	\$10,701.42
Interest at 4 per cent. on the monthly balances to the credit of the account.....	1,283.76
	11,985.18
	<u>\$44,559.26</u>
Deduct:	
Expenditures during the year ending October 31, 1930.....	14,144.77
	<u>\$30,414.49</u>

APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES

For the year ending October 31, 1930

Appropriations made by the Legislature for the purposes of the Commission, Cash
Advances by the Province to the Commission on account of such appropriations,
and the Capital Expenditures made on each Undertaking and System
by the Commission out of such Cash Advances in the Year
Ending October 31, 1930

SUMMARY

NIAGARA SYSTEM

Appropriations by Legislature and by treasury board minute:

For power developments.....	\$4,591,943.00
For transmission lines, transformer stations and rural distribution systems.....	\$5,309,000.00
For eastern transmission lines and stations.....	\$4,527,649.00
	<u>14,428,592.00</u>

Cash advances to the Commission out of such appropriations and treasury board minute.....\$10,219,685.00

Unexpended balance as at October 31, 1930, returnable to Province 189,026.19

\$10,030,658.81

Capital expenditure by the Commission:

On Queenston-Chippawa development.....	\$535,487.57
On Chats Falls development.....	1,862,230.18
On right-of-way.....	26,241.91
On steel-tower lines.....	154,472.54
On wood-pole lines.....	59,836.76
On transformer stations.....	2,150,536.17
On eastern lines.....	1,808,460.47
On eastern stations.....	2,501,396.17
On rural power districts.....	933,273.74

\$10,031,935.51

On Ontario Power generating plant:

Receipts in excess of expenditures..... \$10.13

On rural lines:

Receipts in excess of expenditures..... 1,266.57

1,276.70

\$10,030,658.81

GEORGIAN BAY SYSTEM

Appropriations by Legislature, by special warrant and by treasury board minute.....	\$2,183,456.00	
Cash advances to the Commission out of such appropriations, special warrant and treasury board minute.....	\$1,675,549.00	
Deduct—Capital expenditures in the year ending October 31, 1929 in excess of cash advances by the Province.....	30,158.93	
	\$1,645,390.07	
Unexpended balance as at October 31, 1930, returnable to Province	14,758.06	
	<u>\$1,630,632.01</u>	
Capital expenditure by the Commission:		
On power development.....	\$103,653.65	
On transmission lines.....	427,368.17	
On transformer stations.....	391,480.03	
On rural power districts.....	165,637.48	
On local distributing systems.....	21,260.22	
On Walkerton and Saugeen properties:		
Purchase price (amount paid to Public Utilities Consolidated Corporation).....	\$520,000.00	
Extensions and betterments.....	1,232.46	
	521,232.46	
	<u>\$1,630,632.01</u>	

EASTERN ONTARIO SYSTEM

Appropriations by Legislature and by treasury board minute:		
For Central Ontario district.....	\$732,500.00	
For St. Lawrence, Rideau, Ottawa and Madawaska districts....	1,262,000.00	
For Nipissing district.....	150,000.00	
	<u>\$2,144,500.00</u>	
Cash advances to the Commission out of such appropriations and treasury board minute.....	\$1,120,250.00	
Unexpended balance as at October 31, 1930, returnable to Province	160,402.86	
	<u>\$959,847.14</u>	
Capital expenditure by the Commission:		
On power development—Eastern Ontario System..	\$29,107.07	
On transmission lines—Eastern Ontario system....	51,676.46	
On transformer stations—Eastern Ontario system..	174,874.12	
On utilities—Eastern Ontario system.....	16,616.01	
On rural power districts—Eastern Ontario system..	465,595.91	
	\$737,869.57	
On power development—Nipissing district.....	\$57,874.67	
On transmission lines—Nipissing district.....	1,107.67	
On utilities—Nipissing district.....	10,921.26	
On rural power districts—Nipissing district.....	939.65	
	\$70,843.25	
On transformer stations—Nipissing district:		
Receipts in excess of expenditures.....	1,313.81	
	69,529.44	
On Madawaska district.....	153,668.46	
	<u>\$961,067.47</u>	
On Ottawa River surveys:		
Receipts in excess of expenditures.....	1,220.33	
	<u>\$959,847.14</u>	

THUNDER BAY SYSTEM

Appropriations by Legislature	\$4,250,000.00	
Cash advances to the Commission out of such appropriations.	\$2,352,468.00	
Deduct—Capital expenditures in the year ending October 31, 1929 in excess of cash advances by the Province	8,713.77	
	\$2,343,754.23	
Unexpended balance as at October 31, 1930, returnable to Province..	23,368.92	
	<u>\$2,320,385.31</u>	
Capital expenditure by the Commission:		
On power development	\$2,246,638.54	
On transmission lines	37,646.06	
On transformer stations	36,100.71	
	<u>\$2,320,385.31</u>	

NORTHERN ONTARIO SYSTEM**(Sudbury (Wahnapitae) and Patricia Districts)**

Appropriations by Legislature and by special warrant	\$2,526,410.00	
Cash advances to the Commission out of such appropriations and special warrant	\$1,237,987.00	
Expended out of the Commission's working funds	29,470.19	
	<u>\$1,267,457.19</u>	
Capital expenditure by the Commission:		
On generating plants—Sudbury district (Wahnapitae)	\$ 1,499.18	
On transmission lines—Sudbury district (Wahnapitae)	144,939.01	
On transformer stations—Sudbury district (Wahnapitae)	260.92	
On local distributing systems—Sudbury district (Wahnapitae)	966.12	
On purchase of 3,311 shares of stock of the Wahnapitae Power Company	1,026,410.00	
On power development—Patricia district (Ear Falls)	93,381.96	
	<u>\$1,267,457.19</u>	

MISCELLANEOUS

Appropriations by Legislature	\$1,000,000.00	
Cash advances to the Commission out of such appropriations.	\$12,000.00	
Unexpended balance as at October 31, 1930, returnable to Province..	1,156.67	
	<u>\$10,843.33</u>	
Capital expenditure by the Commission:		
On service buildings and equipment	10,843.33	
	<u>10,843.33</u>	

RURAL POWER DISTRICTS—SUMMARY

Statement showing the total capital expenditures to October 31, 1930 on the construction of primary and secondary lines in Rural Power Districts, the portions thereof in course of construction; the investment in lines in operation; the amounts of grants (fifty per cent. of both primary and secondary lines) payable to the Commission by the Province of Ontario; also the extents to which grants stand authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the amounts of such grants paid over by the Province to the Commission under such authorizations up to October 31, 1930

System	Total capital expenditure	In course of construction	In operation	Grants (50% of primary and secondary lines) payable by the Province	Extents to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
Niagara system.....	\$ 9,666,730.10	\$ 211,748.97	\$ 9,454,981.13	\$ 4,827,435.02	\$ 6,004,786.97	\$ 4,827,707.43
Georgian Bay system.....	869,179.56	88,571.70	780,607.86	411,818.17	519,336.20	410,945.74
Eastern Ontario system.....	1,900,032.13	189,807.62	1,710,224.51	944,331.79	1,174,670.39	944,237.21
Ottawa district.....	199,190.40	22,183.19	177,007.21	99,595.20	124,548.26	99,595.20
Madawaska district.....	12,325.00	12,325.00	.....	6,162.50	8,625.50	6,162.50
Northern Ontario System—						
Nipissing district.....	17,791.32	.....	17,791.32	8,611.03	9,784.00	8,611.03
Additional sum authorized by above						
Orders-in-Council and paid over to	12,665,248.51	524,636.48	12,140,612.03	6,297,953.71	7,841,751.32	6,297,259.11
Commission, but not allocated as be-						
tween rural power districts.....						79,549.99
						6,376,809.10

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1930 on account of authorized grants to rural power districts—as above set out—amounts to..... \$6,376,809.10

The grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1930 amount in the aggregate to..... 6,297,953.71

A balance of..... \$78,855.39

which balance represents:

(a) Grant funds in the hands of the Commission at October 31, 1930 not allocated but to apply against the construction of authorized rural power districts and extension to existing districts..... \$79,549.99

(aa) Grant funds in the hands of the Commission at October 31, 1930 to apply against the construction of or extensions to existing lines in certain rural power districts..... 587.92

Less:

(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed or under construction..... \$80,137.91

1,282.52

\$78,855.39

SECTION X

MUNICIPAL ACCOUNTS

And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing system and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and the financial status at the present time. Other tables give much useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the local electrical utilities in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with a uniform accounting system designed by the Commission. During the year 1930, the uniform accounting system was installed in the following municipalities as each became ready for the service: Brighton, Port Hope, Napanee, Madoc, Stirling, Cardinal and Windermere.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping for the electrical utilities is performed by representatives of the Municipal Audit department of the Commission, in order to insure the employment of proper classifications of revenues and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It com-

bines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$80,129,286.29 in 1930, and the total assets from \$11,907,826.86 to \$116,400,634.91. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to \$50,141,429.00. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 46.0 per cent in 1930. The equities in the Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. Study of this statement will show that the revenue has been increasing satisfactorily. The combined annual surplus, after providing for every cost of operation and fixed charges, including an adequate depreciation charge, amounted in 1930 to \$1,900,694.51.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal system and the results of operations, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. In the statements "A" and "B," the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" shows balance sheets for each municipality with the plant values subdivided into the general natural subdivisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "equity in H-E.P.C. systems." These items represent the amount of accumulated sinking fund paid by the various municipalities through the medium of "power cost" toward the ultimate retirement of the capital invested by the Hydro-Electric Power Commission on behalf of the partner municipalities. The total accumulation to the end of 1930 is shown on the consolidated balance sheet to be \$17,346,372.44.

During the year rebates were made in many municipalities in respect to surpluses standing to the credit of municipal street lighting and waterworks services, and to individual consumers, of amounts varying from one-sixth to one-fourth of the previous year's revenue. These rebates amounted in round figures to approximately \$278,600.00 and affected the cash balances and surpluses in the current balance sheets accordingly.

In each case the balance sheet is complete and final, including either in "accounts receivable," or "accounts payable," the adjustments with the Hydro-Electric Power Commission of the differences between the estimated and the actual costs of power to the municipality.

The liabilities of each local system are set out under their general subdivisions,—debenture balance, accounts payable, bank overdraft, and other liabilities; this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission's systems, are also listed separately and totalled; and under the heading "surplus" are included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The "depreciation reserve" now amounts to 18.23 per cent of the total depreciable plant, while the "depreciation reserve" and "surplus" combined have already reached the sum of \$47,338,177.73, approximating 59.15 per cent of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure; the amount of the annual surpluses and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class, are also shown.

The item "power purchased" includes the annual adjustment made by the Commission, and hence shows for the calendar year the actual cost to the municipal electrical utility and not the cost at the interim billed rates.

Of the 267 municipal electrical utilities included in this statement, 220 had revenue from consumers sufficient to meet all operating expenses and fixed charges and to yield an aggregate operating surplus of \$1,935,147.68 for the year; 30 were able to defray all operating and fixed charges except depreciation, but failed to set aside the full theoretical amounts for that reserve by \$17,598.61; only 17 had gross deficits in respect of operating expenses and fixed charges other than depreciation, aggregating \$9,375.56. The net surplus for all "Hydro" utilities was \$1,900,694.51 for the year.

Statement "C" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1930, and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.* For further reference to this informative statement, consult the special introduction to it on page 366.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1930, for domestic service, for commercial light service and for power service.

*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR.....	1913	1914	1915
Number of municipalities included.....	45	69	99
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
Total plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems.....			
Other assets.....	58,959.93	123,410.97	326,801.11
Total assets.....	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
Total liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H-E.P.C. system.....			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
Other reserves.....			
Total reserves.....	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Additional operating surplus.....	326,830.66	750,549.35	880,730.55
Total surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus.....	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets....	88	88.3	80.3

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,448.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,080,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.07
1,179,132.07	1,483,839.44	1,772,691.35	2,073,114.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,430,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,565,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
695,152.23	1,285,097.33	1,124,018.44	627,076.53	341,855.88	556,608.53
764,504.59	1,261,398.36	972,996.96	1,921,166.69	2,022,538.88	2,148,287.05
1,166,017.73	1,337,578.96	1,663,298.05	1,032,569.75	1,400,671.89	1,504,596.28
342,215.87	125,240.05	444,787.63	1,925,455.77	2,244,004.34	2,541,618.35
			369,071.89	577,584.06	795,570.51
			86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
1,843,804.68	2,463,723.83	3,133,550.17	373,871.89	577,584.06	800,249.05
			3,750,162.28	4,788,645.03	5,491,858.93
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,157.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,618.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4	75.5	71.0	67.9	65.4	64.7

CONSOLIDATED

YEAR.....	1922	1923	1924
Number of municipalities included.....	226	235	248
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,334,552.68	4,488,054.93	4,561,648.92
Substation equipment.....	5,046,857.98	6,015,919.75	6,800,238.00
Distribution system—overhead.....	11,165,330.24	13,135,581.76	14,182,190.33
Distribution system—underground.....	1,598,053.02	1,959,120.41	2,873,446.13
Line transformers.....	3,618,684.73	4,211,655.89	4,456,669.02
Meters.....	4,033,689.52	4,548,933.73	5,149,629.71
Street lighting equipment—regular.....	1,419,016.05	1,061,473.85	1,134,491.77
Street lighting equipment—ornamental.....	666,084.50	708,431.22	728,298.08
Miscellaneous construction expenses....	3,261,495.74	3,681,274.88	4,168,262.21
Steam or hydraulic plant.....	565,158.54	566,619.86	4,196,803.45
Old plant.....	7,997,947.87	8,051,496.28	5,587,420.31
Total plant.....	42,706,840.87	48,428,562.56	53,839,097.93
Bank and cash balance.....	1,164,336.24	1,276,140.06	1,748,912.34
Securities and investments.....	443,938.18	1,153,424.47	1,329,622.58
Accounts receivable.....	3,874,317.14	3,198,769.34	3,898,751.89
Inventories.....	1,738,795.96	1,819,711.62	1,745,628.16
Sinking fund on local debentures.....	3,416,231.45	3,896,261.28	4,520,723.06
Equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58
Other assets.....	238,940.13	190,071.63	250,292.77
Total assets.....	55,126,834.09	62,892,544.90	72,753,596.31
LIABILITIES			
Debenture balance.....	30,454,186.12	33,056,501.29	38,005,162.50
Accounts payable.....	3,669,292.52	3,708,781.76	3,117,224.08
Bank overdraft.....	456,706.69	680,814.59	162,100.71
Other liabilities.....	586,203.02	1,517,828.47	1,780,564.27
Total liabilities.....	35,196,388.35	38,963,826.11	43,065,051.56
RESERVES			
For equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58
For depreciation.....	6,512,813.92	7,328,858.69	8,097,834.68
Other reserves.....			
Total reserves.....	8,056,248.04	10,258,462.63	13,518,402.26
SURPLUS			
Debentures paid.....	3,104,591.15	2,852,038.38	3,530,610.35
Local sinking fund.....	3,416,231.45	3,896,261.28	4,520,723.06
Additional operating surplus.....	5,353,375.10	6,921,956.50	8,118,809.08
Total surplus.....	11,874,197.70	13,670,256.16	16,170,142.49
Total liabilities, reserves and surplus...	55,126,834.09	62,892,544.90	72,753,596.31
Percentage of net debt to total assets...	63.3	62.6	61.4

BALANCE SHEET

1925	1926	1927	1928	1929	1930
247	251	252	256	260	267
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46	7,936,974.31
8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13	19,485,056.28
16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82	19,220,326.48
3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60	4,932,189.05
5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17	7,953,090.23
5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91	7,840,948.07
1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25	1,780,785.67
893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64	1,520,891.01
4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78	3,996,747.77
568,912.49	628,909.57	607,320.00	619,880.93	489,097.57	139,587.28
4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75	5,322,690.14
56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08	80,129,286.29
1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68	2,722,250.12
1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81	1,909,439.11
3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97	4,481,006.92
1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58	1,242,994.51
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88	8,396,255.47
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44
137,280.05	33,151.81	31,942.45	153,275.04	152,260.86	173,030.05
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91
37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74	45,091,808.06
3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03	3,001,186.21
226,147.82	163,725.53	252,362.52	253,143.81	412,056.69	405,663.14
1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17	1,642,771.59
42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63	50,141,429.00
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44
8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49	12,885,387.51
1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26	1,574,655.74
17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15	31,806,415.69
4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59	10,728,279.15
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20	8,396,255.47
8,309,074.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69	15,328,255.60
17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48	34,452,790.22
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91
57.2	55.5	54.2	50.8	47.8	46.0

CONSOLIDATED

YEAR.....	1912	1913	1914	1915
Number of municipalities included . . .	28	45	69	99
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....		572,154.38	789,130.81	944,271.08
Commercial light service.....		525,438.16	673,803.92	720,209.26
Commercial power service.....		905,378.17	1,214,829.31	1,501,797.78
Municipal power.....				
Street lighting.....		560,925.56	698,409.71	835,970.87
Rural service.....				
Miscellaneous.....		53,543.24	57,482.41	68,046.29
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased.....		789,632.87	1,045,752.65	1,485,614.72
Substation operation.....		78,394.81	97,658.90	107,607.31
Substation maintenance.....		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance.....		104,114.51	130,998.65	154,409.71
Line transformer maintenance.....		8,547.61	11,764.32	11,508.92
Meter maintenance.....		5,222.19	9,536.07	12,899.14
Consumers' premises expenses.....		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance.....		84,903.76	113,047.80	136,983.38
Promotion of business.....		72,303.51	86,683.02	74,402.55
Billing and collecting.....		77,351.76	103,560.71	131,541.27
General office, salaries and expenses.....		154,932.69	230,899.75	236,777.86
Undistributed expense.....		65,423.64	89,350.91	129,209.15
Interest.....		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures.....		*	*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus.....	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge.....	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

OPERATING REPORT

1916	1917	1918	1919	1920	1921
128	143	166	181	186	205
\$ c. 1,172,878.96 812,130.78 1,921,152.31 930,057.48 147,381.50 4,983,601.03	\$ c. 1,417,460.31 899,023.72 2,665,280.65 967,495.10 120,805.39 6,070,065.17	\$ c. 1,632,272.12 968,399.42 3,417,248.37 902,875.55 161,243.70 7,082,039.16	\$ c. 1,991,632.31 1,175,143.56 3,443,107.13 988,900.95 228,270.65 7,827,054.60	\$ c. 2,546,345.30 1,512,854.63 3,752,188.22 532,279.09 1,005,535.11 168,919.95 189,778.63 9,707,900.93	\$ c. 3,149,080.03 1,851,501.76 3,895,437.46 654,531.01 1,060,357.77 145,566.57 225,467.70 10,981,942.30
1,959,446.83 153,761.08 46,131.53 154,247.17 14,528.17 24,218.48 52,602.01 145,471.50 79,324.85 154,508.58 306,709.35 97,333.97 951,781.99 *	2,563,880.17 203,091.20 42,129.04 169,326.24 25,328.95 44,461.55 61,765.14 157,857.73 73,516.37 188,083.84 349,932.05 102,938.80 1,085,180.80 *	2,807,769.33 238,257.34 60,805.92 223,347.81 30,488.83 63,155.56 65,149.59 196,157.18 64,962.78 208,660.76 421,680.15 117,474.07 1,238,425.53 *	3,284,490.68 217,638.89 81,853.63 286,310.76 42,509.12 78,726.64 84,301.24 215,963.86 77,789.22 236,504.75 452,131.22 190,690.09 1,285,571.51 *	4,216,667.87 285,407.35 102,050.81 344,551.57 46,323.09 123,701.18 116,283.52 236,930.79 78,294.85 295,942.88 559,695.29 256,400.33 1,431,807.16 *	4,876,650.31 314,838.35 104,798.01 487,918.33 65,088.46 116,722.97 134,854.92 297,481.52 101,804.46 321,685.71 656,268.11 308,874.42 998,611.47 532,183.96
4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69	9,317,781.00
843,535.52 486,141.80 357,393.72	992,574.09 607,296.29 385,367.80	1,345,704.31 718,162.30 627,542.01	1,295,572.99 814,219.37 481,353.62	1,613,844.24 902,028.75 711,815.49	1,664,161.30 1,044,434.85 619,726.45

*Debenture payments included in "Interest."

CONSOLIDATED

YEAR	1922	1923	1924
Number of municipalities included	214	224	241
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light service	2,158,306.34	3,260,772.50	3,566,227.22
Commercial power service	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power	973,263.38	1,161,598.60	1,352,966.47
Street lighting	1,160,446.81	1,269,604.48	1,356,668.97
Rural service	105,877.09	116,639.06	75,100.24
Miscellaneous	187,689.39	316,311.21	231,663.58
Total earnings	12,756,104.21	17,219,044.46	18,798,723.43
EXPENSES			
Power purchased	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation	315,443.70	474,442.13	430,056.09
Substation maintenance	100,763.67	133,815.53	202,050.04
Distribution system, operation and maintenance	519,252.16	636,477.41	648,700.62
Line transformer maintenance	52,932.26	75,920.10	82,936.50
Meter maintenance	107,806.88	139,104.81	141,231.23
Consumers' premises expenses	143,388.88	218,682.02	237,316.20
Street lighting, operation and maintenance	297,363.86	299,579.08	269,973.30
Promotion of business	129,932.63	184,371.00	202,060.74
Billing and collecting	338,153.50	444,306.92	490,273.30
General office, salaries and expenses	605,852.50	937,463.47	889,907.66
Undistributed expense	385,895.03	359,206.91	494,078.50
Truck operation and maintenance			
Interest	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures	635,469.90	990,907.14	1,122,798.87
Total expenses	11,343,765.78	15,208,508.35	16,661,163.71
Surplus	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation charge	715,814.24	916,782.75	973,649.62
Surplus less depreciation	696,524.19	1,093,753.36	1,163,910.10

OPERATING REPORT

1925	1926	1927	1928	1929	1930
242	248	251	255	259	267
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,439,159.86	7,372,602.62	8,189,866.89	8,925,050.56	9,873,681.57	10,542,903.89
3,866,292.79	4,187,899.19	4,626,815.51	5,182,723.32	5,697,766.06	5,961,383.23
6,568,854.77	6,789,217.54	7,342,173.20	8,298,669.44	9,376,158.74	9,340,653.28
1,923,093.09	1,922,512.34	1,913,502.88	1,921,300.97	2,086,444.24	2,111,482.38
1,415,382.22	1,457,686.21	1,489,242.37	1,534,476.98	1,598,262.43	1,674,528.03
37,975.18	37,810.73	13,765.72	48,451.90*	51,590.54*	28,954.60*
286,451.08	471,134.15	581,913.04	465,791.92	522,780.95	581,914.78
20,537,208.99	22,238,862.78	24,157,279.61	26,376,465.09	29,206,684.53	30,241,820.19
11,063,123.34	12,185,669.10	13,505,583.77	14,688,570.08	16,379,162.88	17,323,077.97
417,921.71	450,416.84	430,211.76	420,512.48	461,270.27	479,502.48
207,497.63	286,520.37	275,148.86	247,647.88	274,275.56	320,716.48
686,344.54	795,514.70	758,747.10	736,159.85	907,817.04	991,972.86
75,473.28	74,876.11	94,706.38	88,676.18	93,608.14	96,746.35
156,909.55	189,603.70	214,813.87	218,530.96	242,126.27	278,379.43
252,808.47	275,020.62	285,352.68	291,333.03	314,495.03	317,902.45
275,316.60	295,869.37	318,395.79	329,597.16	359,373.40	372,211.17
217,102.24	234,696.74	220,687.60	249,842.01	250,844.28	249,070.05
521,134.01	557,271.54	605,627.58	638,797.02	695,729.42	745,159.02
891,640.29	786,742.60	824,868.90	844,578.55	904,025.64	907,226.89
520,584.58	460,288.30	531,003.80	542,755.34	502,206.06	523,862.96
1,889,810.95	1,985,233.73	2,063,698.00	2,111,049.49	110,630.62 2,152,695.49	112,029.82 2,220,214.45
1,294,027.29	1,347,511.92	1,505,626.31	1,601,711.32	1,687,201.64	1,828,061.62
18,469,694.48	19,925,235.64	21,634,472.40	23,009,761.35	25,335,461.74	26,766,134.00
2,067,514.51	2,313,627.14	2,522,807.21	3,366,703.74	3,871,222.79	3,475,686.19
1,068,880.42	1,146,273.05	1,249,711.65	1,350,252.16	1,469,846.83	1,574,991.68
998,634.09	1,167,354.09	1,273,095.56	2,016,451.58	2,401,375.96	1,900,694.51

*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 500	Alvinston	Amherst- burg 2,987
Population.....	1,903	P.V.		612	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,847.39				932.00
Distribution system—overhead...	21,016.85	8,329.91	8,103.80	14,008.12	29,952.95
Distribution system—underground					
Line transformers.....	10,503.89	3,022.93	3,085.95	2,869.48	14,221.71
Meters.....	10,299.13	2,209.49	2,571.67	2,939.07	15,127.22
Street light equipment, regular...	1,766.94	740.30	404.09	1,090.62	812.44
Street light equipment, ornamental					
Miscellaneous construction expense	2,927.50		503.36	758.68	1,510.30
Steam or hydraulic plant.....					
Old plant.....	3,481.50			773.85	
Total plant.....	53,388.65	14,302.63	14,668.87	22,573.38	62,556.62
Bank and cash balance.....	3,387.52	520.25	2,315.76	398.29	14,184.37
Securities and investments.....	1,500.00	1,000.00	3,000.00	2,000.00	
Accounts receivable.....	1,228.23	820.40	229.13	279.19	5,215.94
Inventories.....	987.65				
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	22,994.10	2,995.69	6,998.55	6,589.68	17,899.54
Other assets.....					
Total assets.....	83,486.15	19,638.97	27,212.31	31,840.54	99,856.47
Deficit.....				1,759.99	
Total.....	83,486.15	19,638.97	27,212.31	33,600.53	99,856.47
LIABILITIES					
Debenture balance.....	1,836.49	5,031.43	1,132.08	15,434.38	28,890.43
Accounts payable.....		35.48		300.00	2,073.33
Bank overdraft.....					
Other liabilities.....	332.53		65.00		1,767.76
Total liabilities.....	2,169.02	5,066.91	1,197.08	15,734.38	32,731.52
RESERVES					
For equity in H-E.P.C. systems...	22,994.10	2,995.69	6,998.55	6,589.68	17,899.54
For depreciation.....	8,819.07	1,054.77	4,755.86	3,181.61	12,363.91
Other reserves.....					
Total reserves.....	31,813.17	4,050.46	11,754.41	9,771.29	30,263.45
SURPLUS					
Debentures paid.....	12,663.51	3,041.22	3,102.89	8,094.86	3,163.17
Local sinking fund.....					
Additional operating surplus.....	36,840.45	7,480.38	11,157.93		33,698.33
Total surplus.....	49,503.96	10,521.60	14,260.82	8,094.86	36,861.50
Total liabilities, reserves and surplus	83,486.15	19,638.97	27,212.31	33,600.53	99,856.47
Percentage of net debt to total assets	3.6	30.4	5.9	62.3	39.9

“A”

Hydro Municipalities as at December 31, 1930

Ancaster Twp. 4,124	Arkona 371	Aylmer 1,992	Ayr 781	Baden P.V.	Barton Twp. 1,597	Beachville P.V.	Belle River 768
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		9,019.23	125.00	660.64		176.13	
14,284.51	9,143.97	20,495.19	12,081.40	6,821.18	6,589.71	12,873.76	14,617.71
8,445.64	1,513.44	10,175.31	3,726.67	3,880.22	2,253.39	2,356.94	3,356.15
3,737.83	1,675.32	9,031.42	3,462.32	2,724.30	2,417.89	2,988.30	3,129.34
1,171.89	671.60	1,495.51	575.65	447.45	214.50	410.35	924.29
276.93	242.32	1,179.20	941.79		20.00	652.04	962.78
	1,030.30	6,719.17	4,002.53				
27,916.80	14,276.95	58,115.03	24,915.36	14,533.79	11,495.49	19,457.52	22,990.27
1,855.43	456.64	6,599.03	785.94	2,990.47	41.04	5,904.23	2,662.75
		12,000.00				7,000.00	3,000.00
1,072.18	417.73	2,204.91	179.70	324.85	976.94	1,286.40	1,272.69
	2.12	47.93					
5,154.75	1,578.90	15,580.60	5,508.77	14,516.75	1,729.16	17,589.93	3,285.53
			540.82				
35,999.16	16,732.34	94,547.50	31,930.59	32,365.86	14,242.63	51,238.08	33,211.24
	1,096.39				593.96		
35,999.16	17,828.73	94,547.50	31,930.59	32,365.86	14,836.59	51,238.08	33,211.24
8,746.28	11,339.17	23,853.35	7,948.94	2,701.72	8,192.82	2,924.97	6,560.47
1,295.22	350.00		26.14		520.06		
119.70	2,000.00	20.00			100.36		
10,161.20	13,689.17	23,873.35	7,975.08	2,701.72	8,813.24	2,924.97	6,560.47
5,154.75	1,578.90	15,580.60	5,508.77	14,516.75	1,729.16	17,589.93	3,285.53
4,728.82	787.00	8,621.11	2,674.52	1,372.66	1,879.05	4,598.39	2,910.93
							5,000.00
9,883.57	2,365.90	24,201.71	8,183.29	15,889.41	3,608.21	22,188.32	11,196.46
2,043.30	1,773.66	14,848.57	9,554.44	2,298.28	2,415.14	2,428.03	1,939.53
13,911.09		31,623.87	6,217.78	11,476.45		23,696.76	13,514.78
15,954.39	1,773.66	46,472.44	15,772.22	13,774.73	2,415.14	26,124.79	15,454.31
35,999.16	17,828.73	94,547.50	31,930.59	32,365.86	14,836.59	51,238.08	33,211.24
32.9	90.3	30.2	30.2	15.1	70.4	8.7	21.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population.....	1,631	618	600	603	4,993
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					5,081.32
Substation equipment.....	909.64				24,742.53
Distribution system—overhead...	22,236.61	10,803.03	9,926.41	5,904.61	46,557.36
Distribution system—underground					
Line transformers.....	7,899.71	2,441.35	4,296.34	2,575.37	23,468.05
Meters.....	9,397.80	1,642.42	2,820.12	2,822.96	24,970.18
Street light equipment, regular...	2,805.03	1,284.19	817.19	195.44	2,574.56
Street light equipment, ornamental	1,482.97			4,431.19	
Miscellaneous construction expense	1,586.67	254.58	1,043.38	528.56	18,014.58
Steam or hydraulic plant.....					
Old plant.....		2,332.68	1,554.60		675.00
Total plant.....	46,318.43	18,758.25	20,458.04	16,458.13	146,083.58
Bank and cash balance.....	25.00	1.58	453.58	2,240.74	50.00
Securities and investments.....			500.00	11,000.00	
Accounts receivable.....	919.55	1,708.97	451.47	259.49	16,559.86
Inventories.....					182.21
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	14,966.70	3,087.68	8,043.77	8,707.28	65,045.47
Other assets.....	1,272.05				
Total assets.....	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
Deficit.....					
Total.....	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
LIABILITIES					
Debenture balance.....	9,878.28	11,817.46	7,544.21	3,527.91	22,629.72
Accounts payable.....		68.93	422.40	1,147.07	96.22
Bank overdraft.....	145.41				1,046.93
Other liabilities.....	1,482.97	5.00			
Total liabilities.....	11,506.66	11,891.39	7,966.61	4,674.98	23,772.87
RESERVES					
For equity in H-E.P.C. systems...	14,966.70	3,087.68	8,043.77	8,707.28	65,045.47
For depreciation.....	8,491.15	1,739.41	3,871.99	4,419.12	42,296.71
Other reserves.....					
Total reserves.....	23,457.85	4,827.09	11,915.76	13,126.40	107,342.18
SURPLUS					
Debentures paid.....	4,121.72	4,451.57	4,955.79	2,006.28	46,420.92
Local sinking fund.....					
Additional operating surplus.....	24,415.50	2,386.43	5,068.70	18,857.98	50,385.15
Total surplus.....	28,537.22	6,838.00	10,024.49	20,864.26	96,806.07
Total liabilities, reserves and surplus	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
Percentage of net debt to total assets	23.7	58.1	36.4	15.6	14.6

"A"—Continued

Hydro Municipalities as at December 31, 1930

Brantford 29,287	Brantford Twp. 7,053	Bridgeport P.V.	Brigden P.V.	Brussels 706	Burford P.V.	Burgess- ville, P.V.	Caledonia 1,475
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
79,899.07			101.03		202.00		
164,429.80	1,192.71						
232,873.91	49,486.95	8,942.22	6,943.41	13,371.74	8,631.66	3,335.78	15,180.37
6,000.00							
118,090.21	15,460.67	3,332.50	1,837.10	2,395.35	2,353.44	1,207.84	5,275.06
109,326.86	11,082.52	2,015.50	2,260.90	3,470.93	3,180.86	934.25	5,194.99
22,919.41	3,827.71	1,523.23	337.31	1,568.00	425.14	200.94	1,400.83
38,797.27							
32,270.27	2,864.21	563.56	858.11	1,537.56	644.50	457.22	594.81
			1,381.00	2,827.50			
804,606.80	83,914.77	16,377.01	13,718.86	25,171.08	15,437.60	6,136.03	27,646.06
1,255.55	10,197.71	1,272.76	874.63	371.88	2,965.20	2,621.55	136.44
	1,255.69				1,000.00		2,000.00
27,193.70	389.75	273.99	700.10	561.06	951.51	84.05	626.39
1,130.12	10.15						
163,014.09	2,433.00						
331,278.60	9,134.42	1,153.64	5,001.96	4,491.88	5,412.70	2,208.55	8,403.54
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
425,250.00	32,568.87	11,914.39	1,671.93	16,021.08	1,422.68	1,284.31	2,461.76
1,554.97	3,144.34	354.37	471.00	100.00		305.15	
49,870.08	1,488.45						
476,675.05	37,201.66	12,268.76	2,142.93	16,121.08	1,422.68	1,589.46	2,461.76
331,278.60	9,134.42	1,153.64	5,001.96	4,491.88	5,412.70	2,208.55	8,403.54
171,315.34	17,490.18	3,505.92	2,297.39	2,643.68	3,428.41	1,662.83	3,502.79
1,000.00							
503,593.94	26,624.60	4,659.56	7,299.35	7,135.56	8,841.11	3,871.38	11,906.33
104,750.00	24,556.79	453.64	6,328.07	4,978.92	7,577.32	2,215.69	2,162.24
163,014.09	2,433.00						
80,445.78	16,519.44	1,695.44	4,525.20	2,360.34	7,925.90	3,373.65	22,282.10
348,209.87	43,509.23	2,149.08	10,853.27	7,339.26	15,503.22	5,589.34	24,444.34
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
37.6	36.3	68.4	14.0	61.8	7.0	18.0	8.1

STATEMENT

Balance Sheets of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Campbell- ville, P.V.	Cayuga	Chatham	Chippawa	Clifford
Population.....		671	16,104	1,171	461
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			46,044.79		
Substation equipment.....			101,695.86		
Distribution system—overhead...	2,954.27	15,498.45	154,382.82	17,923.35	6,723.91
Distribution system—underground			72,026.49		
Line transformers.....	718.23	2,809.06	86,806.69	5,192.56	1,076.74
Meters.....	511.99	2,314.32	68,552.49	4,652.85	2,014.44
Street light equipment, regular...	258.56	942.83	15,065.24	1,833.65	653.09
Street light equipment, ornamental			31,950.56		
Miscellaneous construction expense	6.82	353.31	31,194.35	1,022.19	37.44
Steam or hydraulic plant.....					
Old plant.....			42,760.91		
Total plant.....	4,449.87	21,917.97	650,480.20	30,624.60	10,505.62
Bank and cash balance.....	528.08	367.21	50.00	682.71	1,172.28
Securities and investments.....	1,000.00				
Accounts receivable.....	348.36	888.39	24,306.59	234.72	94.98
Inventories.....		231.13	4,958.57		
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	484.96	2,892.90	160,923.97	6,898.13	2,082.37
Other assets.....				50.31	
Total assets.....	6,811.27	26,297.60	840,719.33	38,490.47	13,855.25
Deficit.....		203.87			
Total.....	6,811.27	26,501.47	840,719.33	38,490.47	13,855.25
LIABILITIES					
Debtenture balance.....	4,322.19	16,049.11	186,142.04	8,530.71	7,239.25
Accounts payable.....	164.54	917.57	4,617.06	89.76	
Bank overdraft.....			57,716.35		
Other liabilities.....			46,570.04		
Total liabilities.....	4,486.73	16,966.68	295,045.49	8,620.47	7,239.25
RESERVES					
For equity in H-E.P.C. systems...	484.96	2,892.90	160,923.97	6,898.13	2,082.37
For depreciation.....	508.00	2,691.00	93,128.18	5,162.85	991.73
Other reserves.....			502.72		
Total reserves.....	992.96	5,583.90	254,554.87	12,060.98	3,074.10
SURPLUS					
Debentures paid.....	1,125.58	3,950.89	83,857.96	4,819.29	760.75
Local sinking fund.....					
Additional operating surplus.....	206.00		207,261.01	12,989.73	2,781.15
Total surplus.....	1,331.58	3,950.89	291,118.97	17,809.02	3,541.90
Total liabilities, reserves and surplus	6,811.27	26,501.47	840,719.33	38,490.47	13,855.25
Percentage of net debt to total assets	71.0	72.5	43.4	27.3	61.5

"A"—Continued

Hydro Municipalities as at December 31, 1930

Clinton 1,937	Comber P.V.	Cottam P.V.	Courtright 394	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 508
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,979.41							
7,544.43							
21,892.23	6,463.60	8,854.99	6,515.06	3,301.44	3,629.97	8,009.67	9,197.42
7,121.85	3,222.00	1,538.31	1,225.40	1,593.58	766.83	3,286.91	2,640.13
8,908.28	2,189.92	1,803.64	874.17	1,340.00	841.69	2,324.67	3,156.59
1,217.29	384.93	359.43	425.08	342.52	140.78	459.14	673.50
4,119.34	957.54	206.27	558.67	291.87	203.81	328.41	388.37
10,658.09							
69,440.92	13,217.99	12,762.64	9,598.38	6,869.41	5,583.08	14,408.80	16,056.01
2,722.26	3,783.62	1,233.57		1,542.00	1,256.33	112.93	704.07
3,089.70	130.15	298.28	339.48	543.39	2,500.00	2,000.00	6,000.00
1,506.50	34.88				171.95	808.89	249.49
20,403.87							
18,757.65	8,370.76	941.80	2,001.97	3,541.74	1,080.89	2,767.65	4,605.73
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
44,500.00	2,980.88	7,879.38	5,189.89	2,447.78	2,575.47	2,903.64	7,231.05
972.49		10.01	841.82	3.42	364.61		50.00
		85.00	223.58				
45,472.49	2,980.88	7,974.39	6,255.29	2,451.20	2,940.08	2,903.64	7,281.05
18,757.65	8,370.76	941.80	2,001.97	3,541.74	1,080.89	2,767.65	4,605.73
16,233.60	3,918.81	1,497.55	481.15	1,388.51	851.64	621.97	3,724.56
34,991.25	12,289.57	2,439.35	2,483.12	4,930.25	1,932.53	3,389.62	8,330.29
20,403.87	4,719.12	1,120.84	2,948.46	952.22	1,424.53	1,396.36	2,268.95
15,053.29	5,547.83	3,701.71	252.96	4,162.87	4,295.11	12,408.65	9,735.01
35,457.16	10,266.95	4,822.55	3,201.42	5,115.09	5,719.64	13,805.01	12,003.96
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
32.7	17.4	55.8	62.9	27.4	30.9	16.8	31.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Dresden	Drumbo	Dublin	Dundas	Dunnville
Population.....	1,465	P.V.	P.V.	5,052	3,450
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				9,235.96	3,339.68
Substation equipment.....	523.00			13,396.22	27,301.25
Distribution system—overhead....	15,846.13	4,318.07	5,787.61	47,966.05	33,312.65
Distribution system, underground..					
Line transformers.....	7,260.48	1,417.47	897.65	19,252.96	15,964.94
Meters.....	5,689.08	1,730.95	874.11	19,729.99	13,895.05
Street light equipment, regular....	1,116.00	253.02	544.86	10,737.21	3,132.98
Street light equipment, ornamental..					4,767.47
Miscellaneous construction expense	543.84	266.20	787.06	7,165.97	6,061.59
Steam or hydraulic plant.....					
Old plant.....	4,815.01			1,867.38	10,717.62
Total plant.....	35,793.54	7,985.71	8,891.29	129,351.74	118,493.23
Bank and cash balance.....	25.77	1,019.09	113.40	3,181.93	261.82
Securities and investments.....	3,000.00			1,500.00	10,000.00
Accounts receivable.....	818.33	538.00	103.31	5,819.50	5,477.25
Inventories.....	410.81	91.41		537.23	348.35
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	12,558.73	2,537.87	2,382.69	61,026.15	21,203.86
Other assets.....				107.99	
Total assets.....	52,607.18	12,172.08	11,490.69	201,524.54	155,784.51
Deficit.....			462.67		
Total.....	52,607.18	12,172.08	11,953.36	201,524.54	155,784.51
LIABILITIES					
Debenture balance.....	3,258.35	2,897.62	2,600.14	31,797.72	56,987.56
Accounts payable.....	97.34	235.61	1,148.81	3,761.54	10,425.23
Bank overdraft.....					
Other liabilities.....				1,675.77	600.00
Total liabilities.....	3,355.69	3,133.23	3,748.95	37,235.03	68,012.79
RESERVES					
For equity in H-E.P.C. systems...	12,558.73	2,537.87	2,382.69	61,026.15	21,203.86
For depreciation.....	5,163.56	2,372.63	2,221.86	32,221.71	21,751.39
Other reserves.....					
Total reserves.....	17,722.29	4,910.50	4,604.55	93,247.86	42,955.25
SURPLUS					
Debentures paid.....	12,979.90	1,602.38	3,599.86	21,202.28	18,512.44
Local sinking fund.....					
Additional operating surplus.....	18,549.30	2,525.97		49,839.37	26,304.03
Total surplus.....	31,529.20	4,128.35	3,599.86	71,041.65	44,816.47
Total liabilities, reserves and surplus	52,607.18	12,172.08	11,953.36	201,524.54	155,784.51
Percentage of net debt to total assets	8.4	32.5	41.2	26.5	50.5

“A”—Continued

Hydro Municipalities as at December 31, 1930

Dutton 805	East Windsor 15,105	Elmira 2,795	Elora 1,244	Embro 424	Erieau 210	Erie Beach 21	Essex 1,732
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,807.48	160,524.51	29,977.74	15,623.53	8,770.47	8,831.52	1,834.77	34,317.53
3,459.80	70,222.28	14,595.27	7,301.95	2,847.45	1,280.72	613.17	442.55
3,259.83	60,508.38	12,593.32	5,680.92	1,901.58	1,909.23	625.68	12,928.39
577.88	57,814.00	1,467.33	945.48	475.30	240.10		9,827.15
338.94	3,439.78	4,920.64	1,445.50	69.45	379.90	375.03	1,340.06
		2,168.08	1,425.47	429.25			2,731.40
15,443.93	352,508.95	71,858.08	33,917.39	14,493.50	12,641.47	3,448.65	61,587.08
5,000.00		253.88	2,244.65	15.94		31.33	692.55
889.33	85,352.01	1,421.38	5,000.00	775.52	416.92	322.88	5,000.00
53.30		130.86	166.85				5,667.20
7,804.07	85,588.91	34,758.51	795.26	4,755.62	1,623.79	439.41	10,307.75
29,190.63	523,449.87	108,422.71	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
29,190.63	523,449.87	108,422.71	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
5,723.25	117,807.51	16,893.86	5,839.88	4,812.67	5,460.92	2,907.61	20,360.42
80.61	29,781.53	2,995.44	866.49	135.95	1,316.83		1,141.58
6.84	57,814.00	515.65	116.43		375.19		1,936.41
5,810.70	205,403.04	20,404.95		4,948.62		2,907.61	595.18
7,804.07	85,588.91	34,758.51	6,822.80	4,755.62	7,152.94		24,033.59
4,874.60	36,447.33	14,613.08		3,716.67		439.41	
	750.00		9,011.47	1,002.50		280.00	10,307.75
12,678.67	122,786.24	49,371.59	16,421.55	1,623.79	2,626.29		7,577.17
2,684.24	31,192.49	8,106.14	25,433.02	8,472.29	719.41		17,884.92
8,017.02	164,068.10	30,540.03	7,160.12	2,687.33	392.39		2,139.58
10,701.26	195,260.59	38,646.17	19,129.76	3,932.34	222.86		39,196.49
29,190.63	523,449.87	108,422.71	26,289.88	6,619.67	3,480.74	615.25	41,336.07
27.2	46.9	27.7	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
16.2							
32.4							
54.8							
76.5							
32.9							

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population.....	14,212	1,615	2,286	763	1,415
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	23,873.05	3,281.59			6,292.40
Substation equipment.....					
Distribution system, overhead....	290,710.32	21,620.44	31,114.50	10,106.39	20,767.84
Distribution system, underground..					
Line transformers.....	66,597.43	9,314.57	14,882.12	4,408.80	8,687.85
Meters.....	57,597.43	7,594.61	10,833.18	4,175.91	8,774.78
Street light equipment, regular....	12,784.47	932.04	1,876.77	925.60	2,369.94
Street light equipment, ornamental	2,689.44				
Miscellaneous construction expense	7,844.51	2,543.18	1,561.69	3,684.64	1,501.66
Steam or hydraulic plant.....					
Old plant.....			2,546.59		11,042.87
Total plant.....	462,096.65	45,286.43	62,814.85	23,301.34	59,437.34
Bank and cash balance.....	7,708.26	8,001.79	633.09	889.79	2,814.26
Securities and investments.....		3,000.00			5,500.00
Accounts receivable.....	17,537.74	2,645.31	1,573.60	711.12	3,215.67
Inventories.....	153.57	3,339.66	399.21		2,978.69
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	56,972.51	16,339.86	18,472.03	1,471.27	10,978.74
Other assets.....					
Total assets.....	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
Deficit.....					
Total.....	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
LIABILITIES					
Debenture balance.....	183,794.62	10,957.54	26,497.48	19,810.57	13,689.92
Accounts payable.....	66,558.06			445.47	
Bank overdraft.....			5,301.34		
Other liabilities.....	8,969.59		10.00	243.31	53.50
Total liabilities.....	259,322.27	10,957.54	31,808.82	20,499.35	13,743.42
RESERVES					
For equity in H-E.P.C. systems..	56,972.51	16,339.86	18,472.03	1,471.27	10,978.74
For depreciation.....	52,069.70	9,884.77	4,482.10	1,250.35	11,888.69
Other reserves.....		101.87			350.00
Total reserves.....	109,042.21	26,326.50	22,954.13	2,721.62	23,217.43
SURPLUS					
Debentures paid.....	57,205.38	9,042.51	15,502.52	2,689.43	20,710.08
Local sinking fund.....					
Additional operating surplus.....	118,898.87	32,286.50	13,627.31	463.12	27,253.77
Total surplus.....	176,104.25	41,329.01	29,129.83	3,152.55	47,963.85
Total liabilities, reserves and surplus	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
Percentage of net debt to total assets	53.2	17.6	48.6	82.3	18.6

"A"—Continued

Hydro Municipalities as at December 31, 1930

Galt 13,236	George- town 1,992	Glencoe 759	Goderich 4,221	Granton P.V.	Guelph 19,857	Hagers- ville 1,246	Hamilton 134,566
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
199,351.47	12.00		12,957.48		13,380.18		957,948.05
173,378.04			34,402.48		126,039.22	864.37	671,342.99
220,838.69	27,646.52	20,660.69	59,933.91	4,150.68	171,535.71	18,719.63	934,498.99
							517,399.44
56,467.93	16,552.07	6,522.45	19,593.04	1,533.55	78,504.34	9,408.02	525,903.67
69,485.54	12,380.27	4,119.08	16,296.57	1,456.26	85,859.59	7,526.79	507,688.87
14,238.76	1,362.22	1,714.63	4,825.17	163.37	38,027.59	958.69	160,994.93
58,775.54					883.19		
24,427.06	3,037.27	3,577.97	6,074.38	113.08	16,229.42	1,551.68	194,436.42
	2,209.80		14,622.15				30,049.20
816,963.03	63,200.15	36,594.82	168,705.18	7,416.94	530,459.24	39,029.18	4,500,262.56
175.00	2,754.25	314.63	3,143.13	2,035.19	9,046.94	7,733.09	674,401.60
	9,638.19		500.00	2,000.00		7,000.00	
56,059.78	1,532.60	1,777.47	5,683.87	113.43	47,238.30	3,362.98	302,983.85
15,146.20	628.73		2,225.28		35,846.05	41.00	80,079.21
160,925.31					36,750.38		514,388.66
227,733.82	38,894.89	7,076.39	50,600.45	3,469.55	263,987.99	34,726.60	1,333,362.13
1,042.94							14,334.22
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
424,698.60	12,862.73	11,353.36	56,468.67	2,469.61	65,579.16	4,235.45	3,674,571.94
22,675.95	983.78		5,273.91	637.55	19,850.54		239,680.34
54,118.47			1,343.10		2,361.57		128,145.34
501,493.02	13,846.51	11,353.36	63,085.68	3,107.16	87,791.27	4,235.45	4,042,397.62
227,733.82	38,894.89	7,076.39	50,600.45	3,469.55	263,987.99	34,726.60	1,333,362.13
189,566.78	16,330.51	4,449.81	43,984.52	1,494.61	49,530.98	5,742.45	624,423.01
584.29					236.00		42,549.15
417,884.89	55,225.40	11,526.20	94,584.97	4,964.16	313,754.97	40,469.05	2,000,334.29
93,303.35	7,137.27	8,759.52	39,619.38	1,030.39	79,420.83	3,764.55	544,453.18
160,925.31					36,750.38		514,388.66
104,439.51	40,439.63	14,124.23	33,567.88	5,933.40	405,611.45	43,423.80	318,238.48
358,668.17	47,576.90	22,883.75	73,187.26	6,963.79	521,782.66	47,188.35	1,377,080.32
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
38.3	17.8	29.3	35.0	26.9	8.2	7.4	63.3

STATEMENT

Balance Sheets of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality	Harriston	Harrow	Hensall	Hespeler	Highgate
Population	1,274	P.V.	753	2,719	350
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings				4,448.18	
Substation equipment	600.00			31,700.81	
Distribution system, overhead	21,582.73	14,204.68	12,370.10	29,112.39	6,232.83
Distribution system, underground					
Line transformers	7,339.42	7,717.82	4,428.42	19,655.81	2,249.25
Meters	6,747.65	5,484.05	3,291.15	12,030.00	1,687.40
Street light equipment, regular	1,141.41	644.18	605.33	5,425.92	343.16
Street light equipment, ornamental					
Miscellaneous construction expense	1,356.76	95.42	576.95	623.93	551.98
Steam or hydraulic plant					
Old plant	1,001.43		400.00		
Total plant	39,769.40	28,146.15	21,671.95	102,997.04	11,064.62
Bank and cash balance	20.00	5,917.24	4,928.01	3,518.95	1,176.23
Securities and investments					2,353.04
Accounts receivable	591.14	2,216.56	1,238.95	5,832.96	201.41
Inventories			4.22	250.56	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	13,437.77	6,258.50	5,671.22	35,959.49	4,395.36
Other assets					
Total assets	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
Deficit					
Total	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
LIABILITIES					
Debenture balance	13,934.65	9,724.65	8,385.45	42,991.31	3,522.60
Accounts payable	3,386.63	2,125.79	873.43	501.52	
Bank overdraft	2,815.62				
Other liabilities		185.00	37.50	15.20	
Total liabilities	20,136.90	12,035.44	9,296.38	43,508.03	3,522.60
RESERVES					
For equity in H-E.P.C. systems	13,437.77	6,258.50	5,671.22	35,959.49	4,395.36
For depreciation	3,095.28	1,691.92	4,031.73	9,393.50	2,795.73
Other reserves					
Total reserves	16,533.05	7,950.42	9,702.95	45,352.99	7,191.09
SURPLUS					
Debentures paid	11,883.38	2,275.35	3,614.55	34,579.20	1,477.40
Local sinking fund					
Additional operating surplus	5,264.98	20,277.24	10,900.47	25,118.78	6,999.57
Total surplus	17,148.36	22,552.59	14,515.02	59,697.98	8,476.97
Total liabilities, reserves and surplus	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
Percentage of net debt to total assets	49.9	33.2	33.4	38.6	23.8

“A”—Continued

Hydro Municipalities as at December 31, 1930

Humber- stone 1,597	Ingersoll 5,050	Jarvis 471	Kingsville 2,223	Kitchener 28,282	Lambeth P.V.	La Salle 628	Leaming- ton 5,269
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,064.45	25,374.39		7,774.09	52,191.26			13,666.90
25,702.65	51,027.08	8,866.18	29,183.92	213,980.95			7,085.62
				295,506.58	6,454.46	18,460.56	46,699.40
				34,669.75			6,464.83
8,318.36	25,090.10	2,526.96	12,143.99	158,395.98	1,695.33	6,716.60	20,592.23
7,722.87	24,271.02	2,055.87	12,241.29	161,948.01	1,869.38	4,032.82	21,666.68
861.20	2,919.52	846.99	1,384.89	57,801.72	269.16	946.49	1,380.13
	4,597.59		19,200.00				15,178.49
3,007.22	11,959.13	536.27	306.97	16,319.19	300.71	1,486.19	1,930.19
	19,597.39			52,398.91		300.00	
45,612.30	179,900.67	14,832.27	82,235.15	1,043,212.35	10,589.04	31,942.66	134,664.47
5,785.25	10,723.39	2,793.29	2,338.17	9,535.59	1,768.55	3,557.71	17,990.68
	12,883.90		10,000.00	15,000.00			2,000.00
336.11	1,040.02	685.43	4,693.69	66,954.98	690.14	1,927.29	10,109.24
	2,863.83	46.75		15,118.71			
	54,436.40						
5,841.61	75,176.79	4,985.78	14,226.18	497,597.47	3,636.66	3,855.35	23,093.04
				86,939.84			
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
23,600.00	79,800.00	8,010.59	30,544.29	259,303.75	2,822.31	13,124.75	38,898.20
489.88	615.72	878.63	3,581.51	46,061.64	1,132.06	1,446.52	6,563.23
810.29	4,597.59		20,381.53	86,939.84		494.86	17,208.77
24,900.17	85,013.31	8,889.22	54,507.33	392,305.23	3,954.37	15,066.13	62,670.20
5,841.61	75,176.79	4,985.78	14,226.18	497,597.47	3,636.66	3,855.35	23,093.04
2,783.45	17,289.40	1,561.02	11,774.63	192,953.67	1,948.96	2,984.44	13,922.99
				16,069.08			
8,625.06	92,466.19	6,546.80	26,000.81	706,620.22	5,585.62	6,839.79	37,016.03
8,400.00		2,489.41	2,955.71	252,846.25	1,177.69	2,375.25	9,101.80
	54,436.40						
15,650.04	105,109.10	5,418.09	30,029.34	382,587.24	5,966.71	17,001.84	79,069.40
24,050.04	159,545.50	7,907.50	32,985.05	635,433.49	7,144.40	19,377.09	88,171.20
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
48.1	14.7	48.4	55.0	31.7	30.3	40.3	38.0

STATEMENT

Balance Sheets of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Listowel	London	London Twp.	Lucan	Lynden
Population.....	2,545	68,404	7,821	573	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,416.07	410,000.14			241.18
Substation equipment.....		929,144.77			
Distribution system, overhead....	35,568.46	721,520.79	15,629.49	10,404.61	4,750.62
Distribution system, underground..	1,892.35	198,040.91			
Line transformers.....	16,466.40	221,691.61	4,986.28	3,963.49	2,149.21
Meters.....	15,194.94	297,661.75	3,418.34	3,040.05	1,479.81
Street light equipment, regular....	1,754.13	53,855.12	743.58	410.87	256.56
Street light equipment, ornamental	1,348.66	11,895.58			
Miscellaneous construction expense	2,698.41	*125,240.60	478.71	484.77	193.57
Steam or hydraulic plant.....					
Old plant.....	4,745.30		1,733.80	2,860.45	
Total plant.....	81,084.72	2,969,051.27	26,990.20	21,164.24	9,070.95
Bank and cash balance.....	2,811.69	8,846.31	4,864.54	1,060.61	618.50
Securities and investments.....				5,000.00	
Accounts receivable.....	3,317.38	298,564.38	1,227.48	672.75	255.75
Inventories.....		88,306.14			
Sinking fund on local debentures..		305,287.28			
Equity in H-E.P.C. systems.....	27,700.72	897,425.49	4,159.76	8,572.43	6,647.57
Other assets.....					
Total assets.....	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
Deficit.....					
Total.....	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
LIABILITIES					
Debenture balance.....	12,581.62	1,120,600.97	13,746.97	5,064.07	3,104.77
Accounts payable.....		150,938.14	1,775.05	95.00	154.99
Bank overdraft.....		48,963.01			
Other liabilities.....	1,448.66	1,089.83	5.00		
Total liabilities.....	14,030.28	1,321,591.95	15,527.02	5,159.07	3,259.76
RESERVES					
For equity in H-E.P.C. systems....	27,700.72	897,425.49	4,159.76	8,572.43	6,647.57
For depreciation.....	20,342.02	674,731.14	2,430.74	5,345.45	1,845.79
Other reserves.....		57,268.71			
Total reserves.....	48,042.74	1,629,425.34	6,590.50	13,917.88	8,493.36
SURPLUS					
Debentures paid.....	30,608.27	461,299.03	5,253.03	6,149.55	1,390.23
Local sinking fund.....		305,287.28			
Additional operating surplus.....	22,233.22	849,877.27	9,871.43	11,243.53	3,449.42
Total surplus.....	52,841.49	1,616,463.58	15,124.46	17,393.08	4,839.65
Total liabilities, reserves and surplus	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
Percentage of net debt to total assets	16.0	30.2	46.9	18.5	32.8

*Includes uncompleted work orders.

“A”—Continued

Hydro Municipalities as at December 31, 1930

Markham	Merlin	Merritton	Milton	Milverton	Mimico	Mitchell	Moorefield
969	P.V.	2,575	1,775	1,122	5,762	1,645	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		350.00		237.20	13,628.60	12,649.72	
		32,689.04	11,868.94		38,196.44	21,287.83	
13,603.04	7,977.07	23,659.85	20,273.46	11,181.19	67,288.66	27,879.71	2,991.03
7,090.76	3,274.17	5,530.88	12,975.97	7,565.80	24,063.70	7,857.41	990.72
4,969.80	2,235.70	8,991.07	12,376.45	4,818.94	25,079.76	11,219.71	1,148.22
619.29	555.64	1,924.53	1,011.17	669.56	7,109.43	2,469.33	295.88
1,318.86	455.36	2,467.74	4,358.47	944.83	4,834.07	1,031.13	348.35
	241.85		4,096.23			1,500.00	
27,601.75	14,739.79	75,613.11	66,960.69	25,417.52	180,200.66	85,894.84	5,774.20
	1,965.89	9,179.35	2,360.28	1,393.79	831.10	5,202.43	2,056.13
2,567.97	6,000.00			3,000.00			
1,598.88	1,938.59	3,826.92	14,541.71	157.18	4,875.03	6,711.82	173.62
			7,439.34			1,641.34	5.90
5,872.30	5,117.69	26,689.32	48,961.49	21,205.66	49,976.26	18,057.57	2,476.00
			238.99				
37,640.90	29,761.96	115,308.70	140,502.50	51,174.15	235,883.05	117,508.00	10,485.85
37,640.90	29,761.96	115,308.70	140,502.50	51,174.15	235,883.05	117,508.00	10,485.85
2,299.13	9,638.46	24,343.87	10,962.04	3,393.58	77,532.63		2,165.15
773.34	1,176.99	1,655.06		2,040.55	5,086.61	1,335.16	
395.15					1,504.41		
5.00			17.50		3,485.00		
3,472.62	10,815.45	25,998.93	10,979.54	5,434.13	87,608.65	1,335.16	2,165.15
5,872.30	5,117.69	26,689.32	48,961.49	21,205.66	49,976.26	18,057.57	2,476.00
3,922.29	1,315.70	8,537.23	14,223.13	3,602.76	33,771.97	25,378.85	1,564.84
			192.73				
9,794.59	6,433.39	35,226.55	63,377.35	24,808.42	83,748.23	43,436.42	4,040.84
9,074.50	3,725.75	7,842.34	21,750.94	6,106.42	29,467.37	22,295.22	2,334.85
15,299.19	8,787.37	46,240.88	44,394.67	14,825.18	35,058.80	50,441.20	1,945.01
24,373.69	12,513.12	54,083.22	66,145.61	20,931.60	64,526.17	72,736.42	4,279.86
37,640.90	29,761.96	115,308.70	140,502.50	51,174.15	235,883.05	117,508.00	10,485.85
10.9	43.9	29.3	12.0	18.1	47.1	1.3	27.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Mount Brydges P.V.	Newbury 298	New Hamburg 1,454	New Toronto 5,622	Niagara Falls 18,403
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			2,513.19	43,130.88	129,550.98
Substation equipment.....			1,167.55		197,478.00
Distribution system, overhead....	6,090.18	6,337.94	22,766.02	76,635.52	184,555.09
Distribution system, underground.					
Line transformers.....	1,709.69	1,767.86	6,831.27	23,940.28	158,698.50
Meters.....	2,112.88	1,101.87	8,405.97	25,144.88	116,114.21
Street light equipment, regular....	611.96	817.42	1,892.18	9,284.48	24,214.98
Street light equipment, ornamental					92,844.32
Miscellaneous construction expense	152.82	485.13	1,550.78	5,664.48	13,058.25
Steam or hydraulic plant.....					
Old plant.....		348.22	5,242.56		21,931.54
Total plant.....	10,677.53	10,858.44	50,369.52	183,800.52	938,445.87
Bank and cash balance.....	3,049.96	858.34	25.00	6,128.84	52,401.49
Securities and investments.....	2,000.00				
Accounts receivable.....	1,134.84	36.47	1,957.02	15,374.71	2,449.07
Inventories.....		6.52	1,053.23		151.89
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	2,611.95	1,614.49	21,205.02	163,793.80	226,811.90
Other assets.....				3,741.22	3,165.41
Total assets.....	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
Deficit.....					
Total.....	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
LIABILITIES					
Debenture balance.....	2,784.46	5,900.00	9,041.63	4,888.52	421,031.83
Accounts payable.....	282.20	100.79		11,909.43	23,038.44
Bank overdraft.....			1,411.90		
Other liabilities.....			76.50	3,741.22	14,147.36
Total liabilities.....	3,066.66	6,000.79	10,530.03	20,539.17	458,217.63
RESERVES					
For equity in H-E.P.C. systems....	2,611.95	1,614.49	21,205.02	163,793.80	226,811.90
For depreciation.....	1,394.44	1,574.23	9,704.26	29,656.31	105,271.27
Other reserves.....			192.35		5,070.58
Total reserves.....	4,006.39	3,188.72	31,101.63	193,450.11	337,153.75
SURPLUS					
Debentures paid.....	1,435.54	3,854.39	8,687.45	3,111.48	269,211.17
Local sinking fund.....					
Additional operating surplus.....	10,965.69	330.36	24,290.68	155,738.33	158,843.08
Total surplus.....	12,401.23	4,184.75	32,978.13	158,849.81	428,054.25
Total liabilities, reserves and surplus	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
Percentage of net debt to total assets	18.2	51.0	19.7	9.8	46.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

Niagara on-the-Lake 1,547	Norwich 1,213	Oil Springs 466	Otterville P.V.	Palmerston 1,792	Paris 4,156	Parkhill 959	Petrolia 2,671
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,307.35	4,157.99	1,191.19			8,133.56		900.00
16,048.36				691.88	27,914.17		2,403.55
23,994.42	9,719.45	12,180.29	5,335.64	26,750.17	49,843.72	15,811.28	40,123.53
5,605.18	5,386.80	5,256.88	2,670.00	8,817.63	18,687.97	4,357.17	25,140.77
6,373.64	6,509.73	3,368.22	2,215.91	8,252.53	18,183.57	3,899.47	14,742.00
1,155.64	1,132.27	305.72	1,195.04	2,124.07	3,843.10	898.23	985.28
	3,553.37				9,636.85		3,864.07
1,521.33	1,964.65	3,013.34	142.00	1,840.01	617.26	1,464.19	6,728.98
	3,509.82			4,018.71	16,684.76		3,389.94
57,005.92	35,934.08	25,315.64	11,558.59	52,495.00	153,544.96	26,430.34	98,278.12
50.00	4,566.95	1,943.23	5,280.28	588.90	5,809.12	712.48	1,596.51
	3,000.00				6,000.00		8,400.00
2,992.00	1,206.86	1,120.50	784.95	601.53	1,050.87	909.24	4,678.11
1,563.21	1,270.86	75.15		148.46			1,681.54
					21,737.46		
10,873.65	15,893.48	10,991.14	3,168.77	16,584.84	47,613.47	6,853.17	41,907.14
27.65							
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
24,057.25	7,641.51	8,141.90	1,652.65	6,602.54	36,443.67	8,870.89	30,602.98
2,951.56	63.84	1,000.94	392.33	3,113.26	1,562.09	800.31	2,650.54
616.95							
				25.00		172.79	237.00
27,625.76	7,705.35	9,142.84	2,044.98	9,740.80	38,005.76	9,843.99	33,490.52
10,873.65	15,893.48	10,991.14	3,168.77	16,584.84	47,613.47	6,853.17	41,907.14
4,770.92	3,260.16	4,422.26	2,832.07	6,689.48	45,948.35	3,262.32	19,880.25
				709.87			601.35
15,644.57	19,153.64	15,413.40	6,000.84	23,984.19	93,561.82	10,115.49	62,388.74
12,444.17	6,114.49	8,579.41	2,847.35	20,397.46	55,556.33	5,759.13	19,397.02
16,797.93	28,898.75	6,310.01	9,899.42	16,296.28	21,737.46		
					26,894.51	9,186.62	41,265.14
29,242.10	35,013.24	14,889.42	12,746.77	36,693.74	104,188.30	14,945.75	60,662.16
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
44.8	16.8	32.1	11.6	18.1	9.8	35.1	29.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Plattsville	Point Edward	Port Colborne	Port Credit	Port Dalhousie
Population	P.V.	1,378	5,461	1,400	1,656
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings			22,561.01	675.00	
Substation equipment					
Distribution system, overhead.	3,639.94	19,394.61	80,560.68	22,754.77	16,534.80
Distribution system, underground.					
Line transformers	1,252.37	5,773.49	22,740.96	7,951.50	7,674.63
Meters	1,826.73	4,774.10	20,648.01	7,940.12	9,082.33
Street light equipment, regular ...	147.15	2,467.42	4,495.45	4,898.26	1,041.19
Street light equipment, ornamental					
Miscellaneous construction expense	535.92	503.14	6,999.33	799.11	2,174.38
Steam or hydraulic plant					
Old plant			9,929.60		6,018.38
Total plant	7,402.11	32,912.76	167,935.04	45,018.76	42,525.71
Bank and cash balance	25.88	625.21	11,279.24	3,347.81	1,222.48
Securities and investments		13,000.00			3,000.00
Accounts receivable	272.00	2,316.09	7,156.61	2,755.34	3,637.72
Inventories			2,701.66		
Sinking fund on local debentures					1,917.83
Equity in H-E.P.C. systems	3,719.04	17,362.57	32,083.67	12,791.91	10,743.37
Other assets			20.00	200.61	
Total assets	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
Deficit					
Total	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
LIABILITIES					
Debenture balance	3,372.28	10,674.72	112,681.33	9,952.74	12,997.32
Accounts payable	89.17	3,417.95	3,973.93	969.35	
Bank overdraft					
Other liabilities			1,385.00	195.00	
Total liabilities	3,461.45	14,092.67	118,040.26	11,117.09	12,997.32
RESERVES					
For equity in H-E.P.C. systems	3,719.04	17,362.57	32,083.67	12,791.91	10,743.37
For depreciation	2,136.83	7,050.22	19,356.31	10,600.92	3,839.03
Other reserves					
Total reserves	5,855.87	24,412.79	51,439.98	23,392.83	14,582.40
SURPLUS					
Debentures paid	1,864.72	6,325.28	33,318.67	4,547.26	9,502.68
Local sinking fund					1,917.83
Additional operating surplus	236.99	21,385.89	18,377.31	25,057.25	24,046.88
Total surplus	2,101.71	27,711.17	51,695.98	29,604.51	35,467.39
Total liabilities, reserves and surplus	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
Percentage of net debt to total assets	45.0	28.8	62.4	21.7	22.0

“A”—Continued

Hydro Municipalities as at December 31, 1930

Port Dover 1,628	Port Rowan 681	Port Stanley 583	Preston 5,884	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,983
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
248.75		1,512.25					
29,132.03	9,383.74	19,338.31	50,602.15 89,463.20	3,585.93	7,110.02	600.00 9,910.39	1,024.24 21,197.57
10,234.36	1,676.62	8,816.36	48,422.91	2,372.73	1,717.75	6,877.21	9,852.66
6,199.37	1,620.87	7,935.29	39,305.12	1,207.40	1,536.99	4,424.77	9,089.11
2,264.42	888.04	1,377.21	5,380.57	176.10	416.29	1,322.17	3,484.69
2,635.95	681.53	6,114.19	7,136.21	64.35	1,948.71	27.23	1,431.73 1,624.36
		577.51	32,126.75				5,088.46
50,714.88	14,250.80	45,671.12	272,436.91	7,406.51	12,729.76	23,161.77	52,792.82
10.00	23.54	977.62	187.62	1,567.97	129.34	762.44	3,826.61
4,423.03		3,000.00					8,000.00
		735.25	20,962.61	284.00	133.90	1,366.49	1,744.41
			206.43	34.40		50.00	1,146.67
7,928.43	1,887.98	15,838.76	114,313.70	2,685.79	2,607.63	4,578.51	16,278.51
63,076.34	16,162.32	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
	6,015.79						
63,076.34	22,178.11	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
16,441.32	10,048.01	9,754.71	68,172.93	2,285.94	6,955.44	6,043.27	7,409.13
5,880.87	8,464.13		9,283.10	257.63	368.30	103.07	
2,261.89			1,725.69				
290.00		393.93	15.00				1,431.73
24,874.08	18,512.14	10,148.64	79,196.72	2,543.57	7,323.74	6,146.34	8,840.86
7,928.43	1,887.98	15,838.76	114,313.70	2,685.79	2,607.63	4,578.51	16,278.51
4,451.31	826.00	7,518.29	73,076.22	1,657.84	1,639.45	503.00	9,288.72
121.00							
12,500.74	2,713.98	23,357.05	187,389.92	4,343.63	4,247.08	5,081.51	25,567.23
12,558.68	951.99	9,195.29	84,627.07	1,264.06	2,544.56	6,156.73	12,046.86
13,142.84		23,521.77	56,893.56	3,827.41	1,485.25	12,534.63	37,334.07
25,701.52	951.99	32,717.06	141,520.63	5,091.47	4,029.81	18,691.36	49,380.93
63,076.34	22,178.11	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
45.1	129.7	20.1	27.0	27.4	56.4	24.3	13.1

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population.....	4,603	P.V.	752	24,094	107
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		79.00		47,128.31	
Substation equipment.....				114,486.69	
Distribution system, overhead....	89,085.44	7,229.78	9,384.28	191,695.51	7,642.92
Distribution system, underground..					
Line transformers.....	29,986.33	2,481.27	2,301.61	121,937.58	2,381.83
Meters.....	22,699.98	2,525.84	3,375.92	79,879.64	1,409.52
Street light equipment, regular....		544.02	586.17	18,014.10	
Street light equipment, ornamental	17,030.71			27,448.87	
Miscellaneous construction expense	4,571.45	401.71	792.65	41,453.52	149.27
Steam or hydraulic plant.....					
Old plant.....			700.00	8,104.00	
Total plant.....	163,373.91	13,261.62	17,140.63	650,148.22	11,583.54
Bank and cash balance.....		23.00	703.72	1,368.40	
Securities and investments.....			6,000.00	11,969.06	
Accounts receivable.....	15,662.16	256.75	312.79	26,943.20	3,004.79
Inventories.....		160.87		771.84	
Sinking fund on local debentures..				59,033.63	
Equity in H-E.P.C. systems.....	26,385.76	4,502.07	4,592.90	198,930.73	2,309.34
Other assets.....					
Total assets.....	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
Deficit.....					
Total.....	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
LIABILITIES					
Debenture balance.....	64,546.24		6,118.89	204,123.56	4,600.85
Accounts payable.....	4,025.00	2,103.37		80,305.66	203.61
Bank overdraft.....		118.35			
Other liabilities.....	17,030.71	23.00	15.00	27,448.87	
Total liabilities.....	85,601.95	2,244.72	6,133.89	311,878.09	4,804.46
RESERVES					
For equity in H-E.P.C. systems..	26,385.76	4,502.07	4,592.90	198,930.73	2,309.34
For depreciation.....	17,682.93	3,506.13	3,034.53	116,319.85	1,541.32
Other reserves.....	250.00			11,322.14	
Total reserves.....	44,318.69	8,008.20	7,627.43	326,572.72	3,850.66
SURPLUS					
Debentures paid.....	17,953.76	2,000.00	2,381.11	62,899.35	1,740.60
Local sinking fund.....				59,033.63	
Additional operating surplus.....	57,547.43	5,951.39	12,607.61	188,781.29	6,501.95
Total surplus.....	75,501.19	7,951.39	14,988.72	310,714.27	8,242.55
Total liabilities, reserves and surplus	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
Percentage of net debt to total assets	47.8	16.4	25.4	36.6	32.9

"A"—Continued

Hydro Municipalities as at December 31, 1930

St. George P.V.	St. Jacobs P.V.	St. Marys 4,072	St. Thomas 16,567	Sandwich 10,655	Sarnia 16,763	Scarboro' Twp. 17,105	Seaforth 1,702
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	3,000.00	72,852.61	525.70	101,930.83	16,585.49	1,251.57
.....	.....	24,187.39	105,844.97	3,363.18	188,350.33	301.95	5,999.16
5,889.33	6,293.16	47,879.73	104,214.30	105,437.18	199,427.67	249,529.53	26,651.47
.....	.....	29,508.48	.....	.....	.....	.....	.....
2,504.42	2,515.13	17,763.53	53,019.90	45,041.61	78,791.60	52,496.22	7,779.72
2,707.47	2,482.71	20,863.85	65,381.66	49,731.01	70,172.15	56,600.07	8,096.70
230.27	390.26	3,466.96	16,047.06	10,118.50	24,140.23	19,463.13	1,414.55
.....	.....	7,538.63	51,239.13	7,482.11	.....	.....	.....
374.18	460.55	4,346.61	12,657.61	8,868.11	25,630.82	6,723.22	413.33
.....	.....	20,696.85	.....	4,148.96	55,495.72	.....	.....
11,705.67	12,141.81	142,204.92	467,065.22	278,473.38	751,421.46	401,699.61	51,606.50
622.25	795.61	25.00	500.00	12,939.26	.....	6,010.33	.....
2,000.00	3,000.00	.....	53,206.81	33,569.55	.....	.....	13,100.00
653.45	713.72	3,977.81	25,504.03	5,185.95	41,597.95	17,648.93	5,932.02
82.90	33.28	3,789.44	.....	313.15	5,315.98	.....	3,479.32
.....	.....	15,475.35	.....	.....	.....	.....	12,334.37
5,334.45	5,456.48	55,377.45	188,433.79	81,184.18	222,267.76	49,453.83	28,597.32
.....	102.98	.....	.....	.....	.....	.....	.....
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
.....
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
.....
3,958.90	2,852.98	34,757.06	42,585.45	116,165.30	187,392.16	231,398.14	25,000.00
.....	258.38	9,317.50	.....	204.28	.....	461.67	10
.....	.....	939.42	5,801.92	.....	23,446.23	1,275.15	225.57
45.60	102.98	.....	6,814.24	62,541.86	12,455.17	19,936.49	.....
4,004.50	3,214.34	45,013.98	55,201.61	178,911.44	223,293.56	253,071.45	25,225.67
.....
5,334.45	5,456.48	55,377.45	188,433.79	81,184.18	222,267.76	49,453.83	28,597.32
1,835.42	2,079.52	39,275.61	77,154.35	26,694.79	88,815.66	41,128.21	15,072.52
.....	.....	209.05	469.95	.....	454.39	.....	.....
7,169.87	7,536.00	94,862.11	266,058.09	107,878.97	311,537.81	90,582.04	43,669.84
.....
2,041.10	3,147.02	54,489.96	96,358.62	29,407.73	150,607.84	59,170.13	.....
.....	.....	15,475.35	.....	.....	.....	.....	12,334.37
7,183.25	8,346.52	11,008.57	317,091.53	95,467.33	335,163.94	71,989.08	33,819.65
9,224.35	11,493.54	80,973.88	413,450.15	124,875.06	485,771.78	131,159.21	46,154.02
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
26.6	19.1	19.7	10.1	54.1	28.0	59.5	17.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Simcoe	Springfield	Stamford Twp. 6,790	Stouffville	Stratford
Population.....	4,675	393		1,053	18,671
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	7,978.20		7,196.71		135,191.94
Substation equipment.....	22,906.67		37,384.60		136,903.19
Distribution system, overhead....	43,681.77	7,826.80	113,981.74	11,133.01	152,125.27
Distribution system, underground.					
Line transformers.....	22,303.37	2,169.19	41,038.63	3,519.52	90,633.23
Meters.....	19,394.00	1,888.28	27,568.85	3,563.82	84,070.23
Street light equipment, regular...	5,768.50	388.68	8,383.23	1,405.43	5,305.52
Street light equipment, ornamental	2,527.16				15,576.20
Miscellaneous construction expense	6,501.75	691.36	10,348.90	381.93	17,684.08
Steam or hydraulic plant.....					
Old plant.....	927.92		13,743.66	3,866.37	16,150.00
Total plant.....	131,989.34	12,964.31	259,646.32	23,870.08	653,639.66
Bank and cash balance.....	25.00	733.49	8,951.48	3,770.85	2,440.86
Securities and investments.....		5,500.00		5,000.00	26,800.00
Accounts receivable.....	72.80	35.59	11,953.50	1,161.21	58,572.67
Inventories.....	459.31	15.91	3,968.08		10,452.42
Sinking fund on local debentures..					158,940.77
Equity in H-E.P.C. systems.....	30,829.30	3,740.86	31,012.66	4,785.73	240,367.83
Other assets.....			1,072.47		
Total assets.....	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
Deficit.....					
Total.....	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
LIABILITIES					
Debenture balance.....	51,005.55	4,091.09	151,088.84	10,934.43	412,000.00
Accounts payable.....	13,292.54		20,206.55	59.06	
Bank overdraft.....	5,831.44				38,218.53
Other liabilities.....	3,525.00	100.00	3,157.53		
Total liabilities.....	73,654.53	4,191.09	174,452.92	10,993.49	450,218.53
RESERVES					
For equity in H.E.P.C. systems...	30,829.30	3,740.86	31,012.66	4,785.73	240,367.83
For depreciation.....	12,608.58	1,473.43	19,468.70	1,884.34	156,507.70
Other reserves.....			434.19		1,000.00
Total reserves.....	43,437.88	5,214.29	50,915.55	6,670.07	397,875.53
SURPLUS					
Debentures paid.....	12,429.35	5,408.91	39,189.33	7,605.84	43,800.00
Local sinking fund.....					158,940.77
Additional operating surplus.....	33,853.99	8,175.87	52,046.71	13,318.47	100,379.38
Total surplus.....	46,283.34	13,584.78	91,236.04	20,924.31	303,120.15
Total liabilities, reserves and surplus	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
Percentage of net debt to total assets	55.6	21.8	61.1	32.5	38.7

"A"—Continued

Hydro Municipalities as at December 31, 1930

Strathroy 2,737	Sutton 833	Tavistock 965	Tecumseh 2,260	Thames- ford P.V.	Thames- ville 886	Thedford 535	Thorndale P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,149.98		234.02			627.37		
11,918.37							
43,069.57	18,796.28	13,161.43	33,251.92	7,466.84	11,518.02	7,537.29	3,193.68
18,322.19	5,620.35	5,853.80	9,047.73	2,603.58	5,160.49	1,363.70	1,583.98
13,660.36	5,137.62	4,471.86	10,194.94	2,385.98	3,806.31	2,097.75	1,619.14
5,737.50	1,404.71	878.59		332.25	1,197.12	885.46	164.29
			4,760.95				
1,805.32	1,464.39	583.84	1,262.48	214.02	1,005.27	1,646.81	310.45
12,343.15	675.00				4,445.68	433.78	
114,006.44	33,098.35	25,183.54	58,518.02	13,002.67	27,760.26	13,964.79	6,871.54
50.00	781.31	2,009.53		3,117.16	1,310.40	471.57	1,235.47
		4,235.34		6,000.00	5,000.00	5,000.00	
5,715.54	2,634.05	357.27	3,620.63	433.92	429.54	225.56	372.00
3,274.85					4.70		
33,528.21	4,060.18	16,770.46	8,009.09	6,913.75	6,720.68	3,210.91	3,887.82
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
20,344.01	20,124.42	4,230.09	18,503.24	2,250.38	5,775.21	11,345.62	1,682.08
	1,991.47		6,611.94			489.66	47.74
2,705.07							
196.43			4,760.95		12.50	35.61	
23,245.51	22,115.89	4,230.09	29,876.13	2,250.38	5,787.71	11,870.89	1,729.82
33,528.21	4,060.18	16,770.46	8,009.09	6,913.75	6,720.68	3,210.91	3,887.82
20,172.50	2,651.93	5,446.71	7,003.97	3,802.37	4,131.75	1,749.83	1,994.99
414.25			150.00				
54,114.96	6,712.11	22,217.17	15,163.06	10,716.12	10,852.43	4,960.74	5,882.81
25,887.99	5,875.58	1,769.91	7,496.76	3,107.65	5,412.59	5,154.38	1,404.40
53,326.58	5,870.31	20,338.97	17,611.79	13,393.35	19,172.85	886.82	3,349.80
79,214.57	11,745.89	22,108.88	25,108.55	16,501.00	24,585.44	6,041.20	4,754.20
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
18.9	60.6	13.3	48.1	10.0	16.8	60.4	20.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Thorold	Tilbury	Tillson- burg	Toronto	Toronto Twp.
Population.....	5,037	1,886	3,166	585,628	8,047
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		969.46	6,918.30	3,889,438.03	6,366.13
Substation equipment.....			13,937.52	13,623,835.16	
Distribution system, overhead....	29,509.75	13,176.04	38,870.63	5,588,527.11	161,193.13
Distribution system, underground.				3,657,728.79	
Line transformers.....	12,195.14	11,576.10	14,528.24	2,977,805.43	39,342.22
Meters.....	18,555.09	7,281.34	14,732.79	2,802,293.21	26,960.29
Street light equipment, regular...	2,687.06	1,001.16	3,263.29	459,040.35	3,674.84
Street light equipment, ornamental			510.67		
Miscellaneous construction expense	5,144.75	1,326.60	3,393.17	2,542,338.56	2,918.58
Steam or hydraulic plant.....	23,643.54				
Old plant.....		3,049.47		3,589,148.08	619.65
Total plant.....	91,735.33	38,380.17	96,154.61	39,130,154.72	241,074.84
Bank and cash balance.....	15,246.16	1,339.28	2,672.32	855,627.40	22,828.12
Securities and investments.....		10,000.00	21,000.00		
Accounts receivable.....	2,435.24	1,612.71	4,131.22	2,001,932.96	6,252.46
Inventories.....	106.75		3,368.35	642,591.19	
Sinking fund on local debentures..				5,363,316.57	
Equity in H-E.P.C. systems.....	26,298.75	17,424.77	34,639.54	6,978,210.21	29,725.55
Other assets.....					
Total assets.....	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
Deficit.....					
Total.....	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
LIABILITIES					
Debenture balance.....	1,245.49	8,467.59	13,563.65	27,043,445.12	75,477.05
Accounts payable.....	4,409.90			1,582,789.27	6,049.82
Bank overdraft.....			6,285.45		
Other liabilities.....	1,439.50		1,764.00		
Total liabilities.....	7,094.89	8,467.59	21,613.10	28,626,234.39	81,526.87
RESERVES					
For equity in H-E.P.C. systems...	26,298.75	17,424.77	34,639.54	6,978,210.21	29,725.55
For depreciation.....	21,661.89	7,991.54	25,133.95	6,054,331.08	64,698.20
Other reserves.....				1,159,906.75	
Total reserves.....	47,960.64	25,416.31	59,773.49	14,192,448.04	94,423.75
SURPLUS					
Debentures paid.....	3,754.51	5,532.41	22,436.35	4,213,554.88	28,522.95
Local sinking fund.....				5,363,316.57	
Additional operating surplus.....	77,012.19	29,340.62	58,143.10	2,576,279.17	95,407.40
Total surplus.....	80,766.70	34,873.03	80,579.45	12,153,150.62	123,930.35
Total liabilities, reserves and surplus	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
Percentage of net debt to total assets	6.5	16.5	17.0	54.6	30.2

"A"—Continued

Hydro Municipalities as at December 31, 1930

Trafalgar Twp. Zone No. 1 3,732	Trafalgar Twp. Zone No. 2	Walkerville 10,671	Wallace- burg 4,360	Wardsville 214	Waterdown 874	Waterford 1,097	Waterloo 7,782
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,677.94	8,097.44	146,765.98 154,007.80 147,821.77	37,746.29 9,408.37 53,552.52	4,740.54	200.00 13,448.85	14,935.67	14,221.41 63,510.39 80,810.36
8,662.60 4,097.83	1,576.02 1,009.68	89,154.28 67,272.56	34,343.83 18,919.28 2,449.45 7,619.79	1,695.49 1,151.67 519.36	3,803.16 5,120.50 583.81	5,988.47 5,739.04 2,496.22	37,423.54 34,012.87 13,526.67 3,106.80
1,436.76	278.16	180,731.58 38,923.23	9,162.38	488.73	397.65	442.53	4,780.80
		18,335.05	20,941.07	193.94			24,160.67
33,875.13	10,961.30	843,012.25	194,142.98	8,789.73	23,553.97	29,601.93	275,553.51
1,552.94	298.93	32,080.01	6,181.11		1,578.26	145.21	
161.77	14.66	114,794.71 33,983.93	9,087.34 4,232.69	1,000.00 227.01 13.30	2,000.00 4,507.08	8,000.00 534.94	13,692.54 1,600.38 6,048.00
		247,727.70 4,842.09	73,888.74	1,182.11	9,772.03	11,976.35	102,032.46
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
15,258.19	10,000.00	181,238.15 79,464.45	52,347.85	5,063.13 353.70 25.21	967.45 931.39		65,588.39 6,574.19 6,367.18 3,106.80
15,258.19	10,000.00	199,061.08	1,210.46		5.00		
		459,763.68	53,558.31	5,442.04	1,903.84		81,636.56
8,848.67	403.00	247,727.70 87,782.05 3,416.95	73,888.74 29,164.30 211.14	1,182.11 1,236.84	9,772.03 6,856.94	11,976.35 7,607.32	102,032.46 75,774.32
8,848.67	403.00	338,926.70	103,264.18	2,418.95	16,628.97	19,583.67	177,806.78
4,168.22		118,020.85	19,188.73	2,499.27	7,032.55	7,745.53	40,411.61 6,048.00
7,314.76	871.89	359,729.46	111,521.64	851.89	15,845.98	22,929.23	93,023.94
11,482.98	871.89	477,750.31	130,710.37	3,351.16	22,878.53	30,674.76	139,483.55
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
42.9	88.7	44.7	25.1	54.3	6.0	0.0	26.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Watford	Welland	Wellesley	West Lorne	Weston
Population.....	1,045	10,054	P.V.	777	4,425
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		51,489.56			7,721.81
Substation equipment.....		56,574.00			32,737.85
Distribution system, overhead....	15,473.34	130,241.76	5,525.11	11,383.26	56,804.99
Distribution system, underground.		6,810.93			
Line transformers.....	4,993.84	52,970.30	2,153.50	4,738.99	34,305.93
Meters.....	4,992.17	53,355.97	2,321.20	3,103.93	20,412.41
Street light equipment, regular....	737.73	4,420.80	545.11	615.97	8,076.39
Street light equipment, ornamental		27,252.86			20,863.13
Miscellaneous construction expense	2,186.69	10,637.27	102.05	347.14	8,631.58
Steam or hydraulic plant.....					
Old plant.....	657.44	51,280.78		1,250.00	
Total plant.....	29,041.21	445,034.23	10,646.97	21,439.29	189,554.09
Bank and cash balance.....	3,221.22	16,557.69	2,352.43		2,891.24
Securities and investments.....	2,000.00	4,487.73		1,000.00	
Accounts receivable.....	1,252.19	11,929.60	399.60	172.23	11,152.99
Inventories.....	45.00	6,355.82	11.22	22.03	266.09
Sinking fund on local debentures..		82,949.05			
Equity in H-E.P.C. systems.....	7,854.84	112,229.22	7,424.00	13,317.15	90,084.03
Other assets.....		2,962.58			1,306.45
Total assets.....	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
Deficit.....					
Total.....	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
LIABILITIES					
Debenture balance.....	3,573.34	249,250.64	3,215.36	5,873.65	47,006.86
Accounts payable.....	836.79	17,534.16	468.00	1,160.15	
Bank overdraft.....				26.67	
Other liabilities.....		33,422.86			1,306.45
Total liabilities.....	4,410.13	300,207.66	3,683.36	7,060.47	48,313.31
RESERVES					
For equity in H-E.P.C. systems....	7,854.84	112,229.22	7,424.00	13,317.15	90,084.03
For depreciation.....	3,649.24	97,407.02	1,646.80	4,548.14	21,976.03
Other reserves.....					
Total reserves.....	11,504.08	209,636.24	9,070.80	17,865.29	112,060.06
SURPLUS					
Debentures paid.....	6,139.87	25,749.36	4,284.64	2,126.35	23,025.58
Local sinking fund.....		82,949.05			
Additional operating surplus.....	21,360.38	63,963.61	3,795.42	8,898.59	111,855.94
Total surplus.....	27,500.25	172,662.02	8,080.06	11,024.94	134,881.52
Total liabilities, reserves and surplus	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
Percentage of net debt to total assets	12.4	44.6	27.5	31.2	23.5

“A”—Continued

Hydro Municipalities as at December 31, 1930

Wheatley 698	Windsor 68,569	Wood- bridge 727	Wood- stock 10,687	Wyoming 472	York Twp. 55,187	E. York Twp. 27,408	N. York Twp. 10,332
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	289,654.48	.....	35,489.71	.....	.....	16,946.49	27,409.95
.....	645,659.65	.....	89,309.81	.....	.....	8,217.77	17.15
12,971.56	826,874.62	15,002.46	96,202.47	6,914.27	697,722.57	254,039.92	269,495.54
.....	31,754.15	.....	.....	.....	.....	.....	.....
4,091.41	344,889.14	5,575.29	52,844.44	1,257.61	.....	57,040.16	60,028.77
3,466.22	332,592.96	4,099.37	51,296.08	2,123.83	.....	124,739.26	33,848.06
1,519.76	44,810.28	423.26	14,671.01	283.92	47,041.32	17,945.68	12,479.50
.....	658,532.08	.....	.....	.....	.....	955.29	.....
665.00	132,350.28	627.35	5,111.16	805.20	19,070.96	14,534.97	14,796.58
.....
2,569.50	141,990.11	.....	.....	.....	.....	.....	.....
.....
25,283.45	3,449,107.75	25,727.73	344,924.68	11,384.83	763,834.85	494,419.54	418,075.55
.....
4,033.81	11,915.83	737.99	43,416.19	256.74	60,122.25	238.53	8,689.23
.....	30,291.65	1,000.00	31,000.00	.....	.....	3,151.58	.....
24.46	202,974.44	1,285.53	13,657.82	80.57	77,054.52	26,577.82	10,982.97
.....	85,345.76	.....	1,422.77	.....	.....	6,616.27	.....
.....	134,156.63	.....	42,150.73	.....	.....	.....	.....
3,747.14	736,357.69	11,269.16	146,506.22	3,122.44	.....	61,766.45	21,977.44
.....	6,891.22	.....	.....	.....	28,114.40	.....	3,311.71
.....
33,088.86	4,657,040.97	40,020.41	623,078.41	14,844.58	929,126.02	592,770.19	463,036.90
.....	.....	.....	.....	1,325.52	.....	.....	.....
.....
33,088.86	4,657,040.97	40,020.41	623,078.41	16,170.10	929,126.02	592,770.19	463,036.90
.....
.....
9,917.84	1,564,000.33	5,870.39	78,708.99	3,763.38	474,900.42	301,248.43	333,289.51
.....	66,895.96	2,525.77	.....	.....	8,546.13	15,894.49	678.40
.....	.....	165.33	.....	.....	.....	.....	.....
.....	707,640.81	66.50	4,760.45	.....	.....	10,901.73	15,601.34
.....
9,917.84	2,338,537.10	8,627.99	83,469.44	3,763.38	483,446.55	328,044.65	349,569.25
.....
.....
3,747.14	736,357.69	11,269.16	146,506.22	3,122.44	.....	61,766.45	21,977.44
2,265.00	298,977.79	5,722.74	101,513.03	3,347.66	94,748.58	37,937.97	33,248.52
.....	33,978.68	.....	11,336.60	.....	.....	.....	.....
.....
6,012.14	1,069,314.16	16,991.90	259,355.85	6,470.10	94,748.58	99,704.42	55,225.96
.....
.....
3,082.16	425,999.70	2,629.58	48,676.64	5,936.62	125,099.58	55,819.35	29,732.36
.....	134,156.63	.....	42,150.73	.....	.....	.....	.....
14,076.72	689,033.38	11,770.94	189,425.75	.....	225,831.31	109,201.77	28,509.33
.....
17,158.88	1,249,189.71	14,400.52	280,253.12	5,936.62	350,930.89	165,021.12	58,241.69
.....
33,088.86	4,657,040.97	40,020.41	623,078.41	16,170.10	929,126.02	592,770.19	463,036.90
.....
.....
33.8	58.2	30.0	9.5	32.1	53.7	61.8	79.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality.....	Zurich	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population	P.V.		1,342	952	7,311
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		7,069,889.00			14,198.21
Substation equipment.....		18,309,262.59	675.73		5,615.98
Distribution system, overhead...	6,912.47	15,522,393.46	23,248.03	16,758.51	50,746.25
Distribution system, underground.....		4,562,738.67			63,652.35
Line transformers.....	1,643.52	6,847,019.52	5,938.26	4,163.78	32,474.43
Meters.....	2,223.26	6,473,137.14	6,615.67	3,179.53	34,913.07
Street light equipment, regular...	471.82	1,327,980.96	1,453.49	767.21	5,537.37
Street light equipment, ornamental.....		1,398,318.15			6,516.82
Miscellaneous construction expense	240.77	3,631,205.50	2,585.04	369.52	1,816.56
Steam or hydraulic plant.....		23,643.54			
Old plant.....	150.00	4,353,909.01	7,846.49	1,086.62	41,348.61
Total plant.....	11,641.84	69,519,497.54	48,362.71	26,325.17	256,819.65
Bank and cash balance.....	560.35	2,166,883.25	10,784.31		
Securities and investments.....	2,000.00	516,410.51			5,063.02
Accounts receivable.....	474.53	3,914,741.52	1,317.59	616.02	12,583.05
Inventories.....		1,096,166.49			1,103.17
Sinking fund on local debentures.....		7,155,699.38			
Equity in H-E.P.C. systems.....	5,396.71	15,780,538.21	7,164.18	7,439.70	45,639.57
Other assets.....		160,285.95			
Total assets.....	20,073.43	100,310,222.85	67,628.79	34,380.89	321,208.46
Deficit.....		11,458.19		7,182.81	
Total.....	20,073.43	100,321,681.04	67,628.79	41,563.70	321,208.46
LIABILITIES					
Debenture balance.....	4,239.96	40,603,854.11	29,909.17	19,686.71	12,585.49
Accounts payable.....		2,688,696.29	2,666.67		8,845.09
Bank overdraft.....		272,070.43		154.17	9,272.04
Other liabilities.....		1,603,678.19			
Total liabilities.....	4,239.96	45,168,299.02	32,575.84	19,840.88	30,702.62
RESERVES					
For equity in H-E.P.C. systems..	5,396.71	15,780,538.21	7,164.18	7,439.70	45,639.57
For depreciation.....	3,048.43	10,830,378.20	11,418.68	8,969.83	42,619.38
Other reserves.....		1,354,853.79			700.00
Total reserves.....	8,445.14	27,965,770.20	18,582.86	16,409.53	88,958.95
SURPLUS					
Debentures paid.....	1,351.65	8,810,044.19	10,090.83	5,313.29	74,414.51
Local sinking fund.....		7,155,699.38			
Additional operating surplus.....	6,036.68	11,221,868.25	6,379.26		127,132.38
Total surplus.....	7,388.33	27,187,611.82	16,470.09	5,313.29	201,546.89
Total liabilities, reserves and surplus	20,073.43	100,321,681.04	67,628.79	41,563.70	321,208.46
Percentage of net debt to total assets	28.9	49.1	53.9	73.6	11.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

Beaverton 970	Beeton 560	Bradford 884	Brechin P.V.	Canning- ton 878	Chats- worth 257	Chesley 1,772	Coldwater 615
\$ c. 299.50	\$ c. 428.50	\$ c. 388.50	\$ c. 1,757.07	\$ c. 9,347.66	\$ c. 4,412.84	\$ c. 19,404.55	\$ c. 7,474.22
22,217.86	11,539.04	18,056.24	1,757.07	9,347.66	4,412.84	19,404.55	7,474.22
7,775.81	2,177.42	2,886.97	1,031.71	3,082.79	1,014.91	6,113.72	2,779.67
6,234.25	1,729.89	3,488.03	622.33	3,962.85	1,201.13	6,955.42	2,702.87
1,303.41	1,169.54	544.95	212.44	733.17	500.43	1,105.27	399.16
2,445.56	1,415.94	1,828.94	546.92	587.33	385.90	3,418.32	145.03
3,772.42				3,609.37		5,503.60	
44,048.81	18,460.33	27,193.63	4,170.47	21,323.17	7,736.21	43,096.86	13,775.95
2,009.10		2,769.68	770.52	3,291.13	2,598.93	580.56	1,291.84
4,000.00		4,500.00		2,326.62		10,000.00	6,000.00
2,865.44	1,709.11	986.31	517.20	701.25	190.55	1,341.44	1,582.58
	28.89	3.93		264.34		160.96	
8,812.85	5,777.68	6,516.91	3,625.15	6,606.23	2,517.04 1,517.60	12,403.58	4,494.50
		88.92					
61,736.20	25,976.01 745.61	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
61,736.20	26,721.62	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
8,310.67	11,406.36	20,548.99	2,433.40	9,696.77	4,830.12	10,528.44	4,391.03
2,415.85	554.00	543.22	94.23				
276.00	532.50						33.00
11,002.52	12,492.86	21,179.64	2,527.63	9,696.77	4,830.12	10,528.44	4,424.03
8,812.85	5,777.68	6,516.91	3,625.15	6,606.23	1,517.60	12,403.58	4,494.50
8,755.78	4,857.44	6,896.01	1,341.18	5,867.53	2,185.26	10,963.13	5,601.51
17,568.63	10,635.12	13,412.92	4,966.33	12,473.76	3,702.86	23,366.71	10,096.01
6,689.33	3,593.64	4,651.01	777.52	5,303.23	569.88	16,971.56	2,608.97
26,475.72		2,815.81	811.86	7,038.98	2,517.04 2,940.43	16,716.69	10,015.86
33,165.05	3,593.64	7,466.82	1,589.38	12,342.21	6,027.35	33,688.25	12,624.83
61,736.20	26,721.62	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
20.8	61.9	59.6	46.3	34.7	22.0	19.1	19.5

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality.....	Colling- wood 6,126	Cooks- town P.V.	Creemore 610	Dundalk 594	Durham 1,722
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	14,598.66	60.00			56.59
Substation equipment.....	11,203.24	392.95			546.02
Distribution system, overhead....	47,291.00	9,065.60	6,065.98	7,378.40	19,324.89
Distribution system, underground.					
Line transformers.....	15,257.06	2,010.72	1,876.49	3,219.77	6,357.75
Meters.....	22,269.71	1,637.69	2,718.86	2,178.65	5,808.89
Street light equipment, regular...	2,857.01	514.21	295.27	1,085.00	1,210.77
Street light equipment, ornamental					
Miscellaneous construction expense	8,519.40	1,499.15	185.41	488.38	976.57
Steam or hydraulic plant.....					
Old plant.....	473.20		2,651.15	380.94	2,091.39
Total plant.....	122,469.28	15,180.32	13,793.16	14,731.14	36,372.87
Bank and cash balance.....		2,085.05	972.11	404.92	3,475.52
Securities and investments.....	27,000.00		4,000.00	4,000.00	78,000.00
Accounts receivable.....	8,198.67	326.51	558.84	483.40	427.22
Inventories.....	682.44	17.65	75.95	23.70	37.13
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	59,262.32	1,745.07	4,611.22	4,239.26	12,347.13
Other assets.....					
Total assets.....	217,612.71	19,354.60	24,011.28	23,882.42	70,659.87
Deficit.....		591.43			
Total.....	217,612.71	19,946.03	24,011.28	23,882.42	70,659.87
LIABILITIES					
Debenture balance.....	4,298.38	8,348.63	1,963.83	1,788.26	7,917.64
Accounts payable.....	5,105.66	126.18	543.83	14.40	109.44
Bank overdraft.....	115.20				
Other liabilities.....	1,654.76				
Total liabilities.....	11,174.00	8,474.81	2,507.66	1,802.66	8,027.08
RESERVES					
For equity in H-E.P.C. systems...	59,262.32	1,745.07	4,611.22	4,239.26	12,347.13
For depreciation.....	33,749.29	4,574.78	3,389.95	2,964.44	9,138.86
Other reserves.....					
Total reserves.....	93,011.61	6,319.85	8,001.17	7,203.70	21,485.99
SURPLUS					
Debentures paid.....	38,306.21	5,151.37	4,536.17	4,548.64	17,882.36
Local sinking fund.....					
Additional operating surplus.....	75,120.89		8,966.28	10,327.42	23,264.44
Total surplus.....	113,427.10	5,151.37	13,502.45	14,876.06	41,146.80
Total liabilities, reserves and surplus	217,612.71	19,946.03	24,011.28	23,882.42	70,659.87
Percentage of net debt to total assets	7.1	48.1	12.9	9.2	13.8

"A"—Continued

Hydro Municipalities as at December 31, 1930

Elmvale P.V.	Elmwood P.V.	Flesherton 454	Grand Valley 583	Graven- hurst 1,776	Hanover 2,626	Holstein P.V.	Huntsville 2,608
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
106.25			36.50	2,747.29	3,001.32		353.52
				6,372.35	9,271.19		647.30
10,154.65	4,803.32	5,311.00	9,744.65	20,725.27	48,138.33	2,102.68	12,935.39
3,450.35	803.88	1,802.52	1,374.97	6,039.53	16,292.40	555.22	5,492.00
2,962.65	898.21	1,852.83	2,363.75	7,521.39	15,128.80	510.32	8,265.95
447.17	302.28	500.83	568.72	655.27	2,326.30	168.69	2,240.20
				3,249.44			
510.13	1,093.62	887.26	205.70	2,058.15	6,613.77	205.93	795.20
			919.85	26,976.29	2,370.91		5,436.20
17,631.20	7,901.31	10,354.44	15,214.14	76,344.98	103,143.02	3,542.84	36,165.76
2,884.29	2,059.21	2,301.76	3,826.75	4,249.89	5,866.30	82.77	4,242.05
2,000.00			3,739.28	5,800.00	27,496.50		8,000.00
76.75	137.20	440.40	505.12	7,095.46	3,952.15	340.62	5,575.24
	18.51		47.52	798.93		54.81	1,606.04
	315.84			6,125.29			
6,552.86	1,259.30	2,392.84	4,409.70	7,063.93	32,402.77	1,419.72	20,969.70
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	5,440.76	76,558.79
						4,338.89	
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	9,779.65	76,558.79
4,035.95	3,824.72	4,472.14	4,715.85	17,501.19	49,022.45	834.05	5,360.69
831.58	201.17	41.67	51.23	2,399.58	6,060.36	4,659.69	
							221.85
4,867.53	4,025.89	4,513.81	4,767.08	19,900.77	55,082.81	5,493.74	5,582.54
6,552.86	1,259.30	2,392.84	4,409.70	7,063.93	32,402.77	1,419.72	20,969.70
5,162.89	2,064.73	2,859.70	5,119.71	14,194.69	29,253.08	938.19	9,489.46
11,715.75	3,324.03	5,252.54	9,529.41	21,258.62	61,655.85	2,357.91	30,459.16
2,964.05	3,375.28	2,227.86	6,284.15	46,467.25	38,477.55	1,928.00	15,772.85
	315.84			6,125.29			
9,597.77	650.33	3,495.23	7,161.87	13,726.55	17,644.53		24,744.24
12,561.82	4,341.45	5,723.09	13,446.02	66,319.09	56,122.08	1,928.00	40,517.09
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	9,779.65	76,558.79
21.5	36.7	34.5	20.4	14.6	39.2	136.6	10.0

STATEMENT

Balance Sheets of Electrical Departments of

**GEORGIAN BAY
SYSTEM—Continued**

Municipality.....	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population.....	2,352	P.V.	1,147	798	2,729
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	6,389.46				1,104.93
Substation equipment.....	2,794.20			780.80	2,398.85
Distribution system, overhead....	38,781.64	5,113.67	16,459.40	9,199.23	29,200.31
Distribution system, underground.					
Line transformers.....	8,583.14	557.90	3,714.47	2,997.21	6,924.95
Meters.....	9,199.48	600.28	4,346.33	3,067.69	6,481.25
Street light equipment, regular...	4,580.96	379.00	1,310.17	1,095.62	3,088.31
Street light equipment, ornamental					
Miscellaneous construction expense	5,602.23	301.53	2,333.02	665.79	2,257.11
Steam or hydraulic plant.....					
Old plant.....				2,080.65	3,499.68
Total plant.....	75,931.11	6,952.38	28,163.39	19,886.99	54,955.39
Bank and cash balance.....	348.08	681.26	2,576.87	1,315.36	2,733.40
Securities and investments.....			2,000.00	4,500.00	15,702.09
Accounts receivable.....	4,633.70	23.30	1,158.06	222.56	830.99
Inventories.....	1,757.45			279.39	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	10,859.05	1,151.76	5,432.41	3,141.68	7,014.03
Other assets.....					599.63
Total assets.....	93,529.39	8,808.70	39,330.73	29,345.98	81,835.53
Deficit.....		706.44			
Total.....	93,529.39	9,515.14	39,330.73	29,345.98	81,835.53
LIABILITIES					
Debenture balance.....	40,091.31	3,850.23	13,536.39	6,350.84	36,544.08
Accounts payable.....	44.89	952.31		60.00	
Bank overdraft.....					
Other liabilities.....			5.00	20.00	550.32
Total liabilities.....	40,136.20	4,802.54	13,541.39	6,430.84	37,094.40
RESERVES					
For equity in H-E.P.C. systems...	10,859.05	1,151.76	5,432.41	3,141.68	7,014.03
For depreciation.....	10,469.19	1,411.07	3,630.43	5,620.54	5,738.22
Other reserves.....					
Total reserves.....	21,328.24	2,562.83	9,062.84	8,762.22	12,752.25
SURPLUS					
Debentures paid.....	24,108.69	2,149.77	6,186.97	2,649.16	12,816.12
Local sinking fund.....					
Additional operating surplus.....	7,956.26		10,539.53	11,503.76	19,172.76
Total surplus.....	32,064.95	2,149.77	16,726.50	14,152.92	31,988.88
Total liabilities, reserves and surplus	93,529.39	9,515.14	39,330.73	29,345.98	81,835.53
Percentage of net debt to total assets	48.5	62.7	39.9	24.5	49.6

“A”—Continued

Hydro Municipalities as at December 31, 1930

Midland 7,826	Mount Forest 1,823	Neustadt 431	Orange- ville 2,721	Owen Sound 12,304	Paisley 700	Penetang- uishene 3,615	Port McNicol 831
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,036.05	3,725.00		2,585.07	25,978.31		2,151.00	202.60
85,096.20	686.75		1,169.00	11,999.17	1,933.26	7,076.39	
92,242.10	21,719.14	9,965.81	30,906.77	103,757.18	11,055.80	40,184.27	7,206.45
21,575.64	6,397.49	4,374.69	5,660.90	43,231.29	1,576.74	14,788.02	1,248.32
35,153.79	6,791.49	2,017.85	10,035.49	54,856.45	2,816.07	12,912.44	2,277.08
6,609.81	2,281.55	496.41	1,391.17	15,017.03	1,037.03	2,860.64	225.81
11,904.53			5,959.97	12,415.16			
7,272.77	2,206.40	1,521.48	6,006.09	5,449.29	738.33	2,257.60	672.85
				33,282.00			
14,315.62	3,958.97	1,097.60	3,204.99		1,745.00	4,017.05	
293,206.51	47,766.79	19,473.84	66,919.45	305,985.88	20,902.23	86,247.41	11,833.11
11,530.78	3,109.53	1,014.47	2,054.91	18,638.15	82.97	2,946.02	961.88
29,000.00	8,000.00		3,483.02		2,500.00	1,517.42	
19,076.57	678.91	57.19		5,740.28	990.20	2,734.08	804.05
4,452.21	150.95		265.45	6,477.85		744.96	88.58
				16,955.58			
88,335.01	10,950.44	3,950.98	13,031.59	62,857.87	3,090.98	26,579.26	2,134.64
			762.43	9,898.33			
445,601.08	70,656.62	24,496.48	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
		11,361.08					
445,601.08	70,656.62	35,857.56	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
45,645.27	14,198.93	9,555.11	14,630.97	20,000.00	12,206.60	20,928.98	3,441.34
15,916.28		9,623.94	2,279.49	9,034.99	408.25		2.90
528.42				1,786.71			
62,089.97	14,198.93	19,179.05	16,910.46	30,821.70	12,614.85	20,928.98	3,444.24
88,335.01	10,950.44	3,950.98	13,031.59	62,857.87	3,090.98	26,579.26	2,134.64
84,702.15	10,961.60	5,282.64	14,656.18	44,242.18	2,251.85	24,525.45	3,436.29
			762.43	9,898.33			
173,037.16	21,912.04	9,233.62	28,450.20	116,998.38	5,342.83	51,104.71	5,570.93
66,424.72	16,759.67	7,444.89	21,269.03	121,000.00	3,793.40	20,071.02	3,858.66
				16,955.58			
144,049.23	17,785.98		19,887.16	140,778.28	5,815.30	28,664.44	2,948.43
210,473.95	34,545.65	7,444.89	41,156.19	278,733.86	9,608.70	48,735.46	6,807.09
445,601.08	70,656.62	35,857.56	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
17.4	23.8	93.3	23.0	4.0	51.5	22.2	25.2

STATEMENT

Balance Sheets of Electrical Departments of

**GEORGIAN BAY
SYSTEM—Continued**

Municipality.....	Port Perry 1,185	Priceville P.V.	Ripley 423	Shelburne 1,135	Stayner 968
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		68.00		800.00	
Substation equipment.....	2,564.65			566.60	200.00
Distribution system, overhead....	18,708.32	4,641.50	9,138.49	13,969.45	11,342.25
Distribution system, underground..					
Line transformers.....	4,219.57	549.70	2,885.36	4,667.88	4,850.40
Meters.....	3,835.83	362.85	1,181.13	6,012.85	4,715.61
Street light equipment, regular....	1,037.90	139.88	844.33	1,059.60	884.35
Street light equipment, ornamental					
Miscellaneous construction expense	606.42	833.90	1,164.99	2,277.07	321.33
Steam or hydraulic plant.....					
Old plant.....				739.50	4,132.41
Total plant.....	30,972.69	6,595.83	15,214.30	30,092.95	26,446.35
Bank and cash balance.....	4,436.10	2.57	1,183.75	4,472.30	838.62
Securities and investments.....	7,946.66		1,500.00	5,000.00	7,000.00
Accounts receivable.....	960.33		44.97	773.65	654.46
Inventories.....				43.79	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	4,490.51	493.45	2,463.62	6,820.74	5,822.33
Other assets.....					
Total assets.....	48,806.29	7,091.85	20,406.64	47,203.43	40,761.76
Deficit.....		5,015.13			
Total.....	48,806.29	12,106.98	20,406.64	47,203.43	40,761.76
LIABILITIES					
Debenture balance.....	17,079.27	3,978.42	11,471.10	8,082.71	4,241.37
Accounts payable.....	357.60	3,458.63	19.84	957.32	64.30
Bank overdraft.....					
Other liabilities.....	78.00		28.85		
Total liabilities.....	17,514.87	7,437.05	11,519.79	9,040.03	4,305.67
RESERVES					
For equity in H-E.P.C. systems....	4,490.51	493.45	2,463.62	6,820.74	5,822.33
For depreciation.....	4,033.21	1,154.90	2,430.18	7,700.43	6,869.42
Other reserves.....					
Total reserves.....	8,523.72	1,648.35	4,893.80	14,521.17	12,691.75
SURPLUS					
Debentures paid.....	2,802.39	3,021.58	2,500.84	11,837.29	9,758.63
Local sinking fund.....					
Additional operating surplus.....	19,965.31		1,492.21	11,804.94	14,005.71
Total surplus.....	22,767.70	3,021.58	3,993.05	23,642.23	23,764.34
Total liabilities, reserves and surplus	48,806.29	12,106.98	20,406.64	47,203.43	40,761.76
Percentage of net debt to total assets	39.5	112.7	64.2	22.4	12.3

"A"—Continued

Hydro Municipalities as at December 31, 1930

Sunderland P.V.	Tara 441	Teeswater 817	Thornton P.V.	Tottenham 545	Uxbridge 1,425	Victoria Harbor 1,104	Waubau- shene P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	330.31	.....	358.50	40.00	.....	.....
3,897.20	10,836.13	14,742.84	6,406.51	7,972.78	2,657.65	7,689.15	4,959.14
.....
1,269.15	1,904.89	3,389.21	860.41	1,117.48	3,643.96	1,135.83	989.81
1,834.80	1,559.81	3,166.18	766.71	1,843.47	4,120.71	2,216.51	1,423.33
282.89	430.59	1,395.76	375.90	460.17	1,214.74	337.47	221.79
.....
154.72	1,243.96	1,801.40	300.35	1,265.68	843.50	667.12	327.66
.....
2,030.00	.....	4,976.86	.....	286.45	.....	.....	.....
.....
9,468.76	15,975.38	29,802.56	8,709.88	13,304.53	25,404.36	12,046.08	7,921.73
.....
1,969.57	776.78	2,520.44	159.60	668.78	2,055.31	2,042.79	3,528.47
.....	.....	2,000.00	.....	.....	8,000.00	.....	.....
502.16	30.52	269.83	551.21	1,177.37	1,203.62	186.05	25.95
.....
4,689.94	3,314.63	4,292.74	1,235.99	3,677.68	4,779.75	2,516.77	1,411.28
.....	.....	.....	.....	74.01	.....	.....	.....
.....
16,630.43	20,097.31	38,885.57	10,656.68	18,902.37	41,443.04	16,791.69	12,887.43
.....	3,582.89	.....	5,065.38	2,670.99	.....	.....	.....
.....
16,630.43	23,680.20	38,885.57	15,722.06	21,573.36	41,443.04	16,791.69	12,887.43
.....
3,912.31	8,181.16	15,352.25	4,593.60	8,724.41	14,618.84	2,322.70	1,285.34
107.20	50.38	562.34	4,099.22	1,358.41	.....	6.91	200.37
.....
.....	.....	.....	.....	73.00	.....	.....	.....
.....
4,019.51	8,231.54	15,914.59	8,692.82	10,155.82	14,618.84	2,329.61	1,485.71
.....
4,689.94	3,314.63	4,292.74	1,235.99	3,677.68	4,779.75	2,516.77	1,411.28
2,531.05	4,815.19	3,322.83	2,886.85	3,497.17	2,922.24	3,248.48	1,841.75
.....
7,220.99	8,129.82	7,615.57	4,122.84	7,174.85	7,701.99	5,765.25	3,253.03
.....
2,887.69	7,318.84	12,647.75	2,906.40	4,242.69	1,588.75	4,177.30	2,214.66
.....
2,502.24	.....	2,707.66	.....	.....	17,533.46	4,519.53	5,934.03
.....
5,389.93	7,318.84	15,355.41	2,906.40	4,242.69	19,122.21	8,696.83	8,148.69
.....
16,630.43	23,680.20	38,885.57	15,722.06	21,573.36	41,443.04	16,791.69	12,887.43
.....
33.7	49.0	46.0	92.3	66.7	39.9	16.3	12.9

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded					EASTERN SYSTEM
Municipality.....	Winder- mere 123	Wingham	Wood- ville 405	GEORGIAN BAY SYSTEM SUMMARY	Alexandria
Population.....		2,362			2,300
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		8,423.66		106,457.92	202.00
Substation equipment.....		4,699.84		161,449.91	
Distribution system, overhead...	8,956.41	38,032.66	2,875.73	980,847.56	28,133.40
Distribution system, underground				63,652.35	
Line transformers.....	2,578.71	14,302.91	1,760.09	305,728.30	7,803.54
Meters.....	743.46	12,601.71	1,864.84	344,528.18	6,705.56
Street light equipment, regular..	247.26	3,292.12	127.31	79,623.73	2,224.20
Street light equipment, ornamental				40,045.92	
Miscellaneous construction expense		4,612.07	251.91	93,540.30	5,638.93
Steam or hydraulic plant.....		13,592.99		46,874.99	
Old plant.....		12,327.52	2,182.50	165,061.84	4,466.89
Total plant.....	12,525.84	111,885.48	9,062.38	2,387,811.00	55,174.52
Bank and cash balance.....	466.93	3,144.82	1,178.28	133,985.48	7,838.74
Securities and investments.....		6,000.00	6,500.00	242,574.61	
Accounts receivable.....	2,887.62	5,519.20	319.76	104,584.71	3,487.92
Inventories.....		3,086.61		22,271.21	
Sinking fund on local debentures.				25,913.75	
Equity in H-E.P.C. systems.....	90.08	12,148.58	4,790.31	570,241.87	12,070.02
Other assets.....				11,423.32	
Total assets.....	15,970.47	141,784.69	21,850.73	3,498,805.95	78,571.20
Deficit.....				41,260.65	
Total.....	15,970.47	141,784.69	21,850.73	3,540,066.60	78,571.20
LIABILITIES					
Debenture balance.....		46,297.46	3,527.34	643,059.26	27,138.42
Accounts payable.....	13,140.29			97,969.71	2,074.68
Bank overdraft.....				10,073.91	
Other liabilities.....		250.00		5,593.34	140.98
Total liabilities.....	13,140.29	46,547.46	3,527.34	756,696.22	29,354.08
RESERVES					
For equity in H-E.P.C. systems..	90.08	12,148.58	4,790.31	570,241.87	12,070.02
For depreciation.....	104.00	15,851.62	1,711.97	514,224.58	7,788.06
Other reserves.....	1,750.00			13,110.76	325.25
Total reserves.....	1,944.08	28,000.20	6,502.28	1,097,577.21	20,183.33
SURPLUS					
Debentures paid.....		49,808.04	1,972.66	747,123.12	20,995.42
Local sinking fund.....				25,913.75	
Additional operating surplus....	886.10	17,428.99	9,848.45	912,756.30	8,038.37
Total surplus.....	886.10	67,237.03	11,821.11	1,685,793.17	29,033.79
Total liabilities, reserves and surplus	15,970.47	141,784.69	21,850.73	3,540,066.60	78,571.20
Percentage of net debt to total assets	82.7	35.9	20.7	25.2	44.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

ONTARIO

Apple Hill P.V.	Athens 602	Belleville 13,267	Bloomfield 540	Brighton 1,311	Brockville 9,191	Cardinal 1,284	Carleton Place 4,293
\$ c. 169.06	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,845.84	13,789.18	98,808.89	9,068.28	13,766.21	75,919.39	9,130.55	37,227.41
1,288.37	1,724.61	20,854.47	1,085.36	2,839.98	31,249.47	1,010.89	9,112.97
885.15	2,193.51	50,324.47	2,628.20	5,936.87	39,290.12	1,387.12	14,978.66
421.12	698.90	15,722.65	904.70	809.08	20,174.12	377.93	6,379.68
210.33	1,011.61	5,055.87	1,403.42	191.67	3,065.19	661.96	4,188.44
709.55					54,682.45		
					4,811.17	3,474.80	5,293.19
6,529.42	19,417.81	193,110.00	15,499.96	23,543.81	257,448.24	16,043.25	85,907.30
	1,451.51	28,847.43	5,094.21	992.59	22,028.79	1,016.70	1,405.01
173.41	297.89	18,466.16	480.85	2,530.08	135,000.00		11,000.00
		7,916.54		4,114.25	12,472.78		5,849.28
1,130.13	962.76	21,957.90	1,160.13	1,030.07	2,514.80		859.94
					63,287.07		
					61,515.00	106.78	25,408.63
7,832.96	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
450.37							
8,283.33	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
4,209.90	13,174.89	120,000.00	8,346.34	25,000.00	89,633.06	15,000.00	50,469.16
108.20	4,194.30			1,263.67	12,859.87	1,760.88	
51.38							
		4,377.36		81.00	13.00		532.50
4,369.48	17,369.19	124,377.36	8,346.34	26,344.67	102,505.93	16,760.88	51,001.66
1,130.13	962.76	21,957.90	1,160.13	1,030.07	61,515.00	106.78	25,408.63
993.62	708.00	6,105.75	3,192.18	608.00	50,394.48	100.00	6,183.65
		460.00					
2,123.75	1,670.76	28,523.65	4,352.31	1,638.07	111,909.48	206.78	31,592.28
1,790.10	825.11	56,000.00	2,853.66		137,024.48		15,530.84
					63,287.07		
	2,264.91	61,397.02	6,682.84	4,228.06	139,539.72	199.07	32,305.38
1,790.10	3,090.02	117,397.02	9,536.50	4,228.06	339,851.27	199.07	47,836.22
8,283.33	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
65.3	82.1	50.1	39.6	84.5	9.1	98.2	48.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Chester- ville 965	Finch	Havelock	Kempt- ville 1,298	Kingston
Population.....		377	1,421		21,616
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	250.00				184,945.77
Substation equipment.....			572.90		44,473.79
Distribution system, overhead....	7,682.98	7,298.41	19,596.50	18,916.39	160,594.05
Distribution system, underground..					117,934.52
Line transformers.....	2,993.20	1,393.35	2,054.41	4,535.19	54,539.94
Meters.....	3,774.53	1,495.78	5,255.65	5,752.89	92,095.49
Street light equipment, regular...	509.58	335.50	1,811.18	1,063.16	14,211.68
Street light equipment, ornamental					52,548.89
Miscellaneous construction expense	610.68	23.24	4,686.53	5,715.58	50,385.78
Steam or hydraulic plant.....					14,386.30
Old plant.....			2,420.45		
Total plant.....	15,820.97	10,546.28	36,397.62	35,983.21	786,116.21
Bank and cash balance.....	11,401.11	923.03	4,236.80	3,416.23	25,896.32
Securities and investments.....	4,000.00		2,500.00	18,000.00	61,175.00
Accounts receivable.....	499.78	73.96	488.23	3,991.75	23,150.63
Inventories.....	679.17			456.79	11,859.27
Sinking fund on local debentures..					96,028.72
Equity in H-E.P.C. systems.....	12,969.45	924.79	2,686.16	6,076.09	
Other assets.....					
Total assets.....	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
Deficit.....					
Total.....	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
LIABILITIES					
Debenture balance.....	2,593.33	6,394.19	21,468.54	20,831.98	212,254.00
Accounts payable.....	145.13	478.87	117.03	1,835.55	
Bank overdraft.....					
Other liabilities.....					115.00
Total liabilities.....	2,738.46	6,873.06	21,585.57	22,667.53	212,369.00
RESERVES					
For equity in H-E.P.C. systems...	12,969.45	924.79	2,668.16	6,076.09	
For depreciation.....	6,247.04	418.00	4,887.65	4,732.60	82,129.42
Other reserves.....					44,121.54
Total reserves.....	19,216.49	1,342.79	7,573.81	10,808.69	126,250.96
SURPLUS					
Debentures paid.....	3,906.67	605.81	11,431.46	4,168.02	99,645.99
Local sinking fund.....					96,028.72
Additional operating surplus.....	19,508.86	3,646.40	5,717.97	30,279.83	469,931.48
Total surplus.....	23,415.53	4,252.21	17,149.43	34,447.85	665,606.19
Total liabilities, reserves and surplus	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
Percentage of net debt to total assets	8.5	59.5	49.5	36.7	12.8

“A”—Continued

Hydro Municipalities as at December 31, 1930

Lakefield 1,423	Lanark 581	Lancaster 560	Lindsay 7,056	Madoc 1,067	Marmora 1,023	Martin- town P.V.	Maxville 746
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
214.79			10,273.28	100.00		126.15	
21,020.06	5,853.60	6,264.04	3,176.56 66,853.50	6,581.67	12,573.09	2,700.00	407.79 11,338.49
4,508.78	898.05	962.35	17,541.05	2,010.00	2,184.64	690.33	1,339.45
7,038.05	1,575.54	1,455.88	29,940.87	4,429.06	3,305.52	773.12	2,245.99
1,831.52	682.38	650.65	10,079.87	1,500.00	1,088.59	335.26	1,582.34
3,379.54	321.60	1,068.55	2,136.73	8.10	2,000.91	653.27	2,467.30
3,445.25					573.62		
41,437.99	9,331.17	10,401.47	140,001.86	14,628.83	21,726.37	5,278.13	19,381.36
7,169.86	620.22	1,752.92	11,943.29	1,870.47	3,349.22	918.20	
11,503.40	1,982.05		40,000.00		920.50	1,000.00	
2,097.97	736.69		2,240.27	2,217.33	299.18	322.62	354.50
			693.21				
1,883.15	1,950.47	2,736.92	14,841.22	553.64	915.95	698.06	3,341.22
			100.00				
64,092.37	14,620.60	14,891.31	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
		8,225.95					
64,092.37	14,620.60	23,117.26	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
28,265.11	4,749.96	5,312.28	121,940.36	2,242.73	10,074.74	3,850.15	10,091.90
1,174.28		8,179.16		1,688.31	28.43	8.17	
330.59		526.31	1,470.20		10.00	3.00	465.87 30.00
29,769.98	4,749.96	14,017.75	123,410.56	3,931.04	10,113.17	3,861.32	10,587.77
1,883.15	1,950.47	2,736.92	14,841.22	553.64	915.95	698.06	3,341.22
7,180.30	1,168.10	1,704.45	8,177.60	605.00	3,048.17	852.60	2,586.81
9,063.45	3,118.57	4,441.37	23,018.82	1,158.64	3,964.12	1,550.66	5,928.03
5,234.89	2,811.51	4,658.14	8,059.64	11,757.27	7,591.37	2,149.85	5,908.10
20,024.05	3,940.56		55,330.83	2,423.32	5,542.56	655.18	653.18
25,258.94	6,752.07	4,658.14	63,390.47	14,180.59	13,133.93	2,805.03	6,561.28
64,092.37	14,620.60	23,117.26	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
47.9	37.5	115.3	63.3	21.0	38.4	51.4	53.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Napanee	Norwood	Omeme	Oshawa	Ottawa
Population.....	2,990	764	481	24,194	122,731
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				4,650.00	230,519.98
Substation equipment.....		457.53	360.32	1,206.00	564,396.95
Distribution system, overhead....	35,893.25	23,152.45	10,654.21	191,276.28	657,027.86
Distribution system, underground.					187,863.51
Line transformers.....	8,045.65	4,462.72	2,647.47	39,811.84	266,390.89
Meters.....	15,145.01	5,062.44	2,399.54	100,289.28	256,304.30
Street light equipment, regular...	3,463.96	1,848.52	497.77	14,919.94	82,422.49
Street light equipment, ornamental					29,978.05
Miscellaneous construction expense	3,448.61	4,093.56	1,540.92	8,829.57	34,232.85
Steam or hydraulic plant.....					
Old plant.....	1,080.75	2,447.51		8,831.65	
Total plant.....	67,077.23	41,524.73	18,100.23	369,814.56	2,309,136.88
Bank and cash balance.....	3,008.30	3,995.89	101.91	73,862.59	1,458.70
Securities and investments.....		4,000.00			153,000.00
Accounts receivable.....	15,897.78	225.97	107.81	60,387.25	79,365.45
Inventories.....	5,365.01			9,868.27	26,688.16
Sinking fund on local debentures..					523,988.44
Equity in H-E.P.C. systems.....	4,018.84	1,209.91		81,657.92	9,694.63
Other assets.....					
Total assets.....	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
Deficit.....					
Total.....	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
LIABILITIES					
Debenture balance.....	70,000.00	30,668.62	6,157.92	300,374.35	942,421.16
Accounts payable.....	3,377.83	773.01		40,286.09	34,001.13
Bank overdraft.....					122,682.49
Other liabilities.....	439.10	228.20		11,926.04	
Total liabilities.....	73,816.93	31,669.83	6,157.92	352,586.48	1,099,104.78
RESERVES					
For equity in H-E.P.C. systems...	4,018.84	1,209.91		81,657.92	9,694.63
For depreciation.....	1,640.00	6,311.72	4,548.90	14,215.00	762,401.86
Other reserves.....					102,891.47
Total reserves.....	5,658.84	7,521.63	4,548.90	95,872.92	874,987.96
SURPLUS					
Debentures paid.....		6,431.38	5,842.08	9,625.65	37,578.84
Local sinking fund.....					523,988.44
Additional operating surplus.....	15,891.39	5,333.66	1,761.05	137,505.54	567,672.24
Total surplus.....	15,891.39	11,765.04	7,603.13	147,131.19	1,129,239.52
Total liabilities, reserves and surplus	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
Percentage of net debt to total assets	80.8	63.7	33.6	68.6	22.4

*Fifteen months' operation.

“A”—Continued

Hydro Municipalities as at December 31, 1930

Perth	Peterboro'	Picton	Port Hope	Prescott	Richmond	Russell	Smiths Falls
3,698	22,012	3,315	4,600*	2,757	362	P.V.	Falls 7,178
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,600.50	75,202.75	1,405.07	.....	2,761.54	.....	.....	19,928.85
3,492.82	101,402.92	2,004.66	.....	.....	.....	.....	4,845.66
40,829.07	171,259.36	33,333.21	47,299.94	37,528.22	5,927.17	7,704.80	84,511.68
.....
20,314.94	93,468.56	9,288.55	11,399.08	11,905.52	769.40	1,382.48	23,512.75
19,873.15	86,516.87	15,220.18	18,381.68	17,426.57	1,038.91	1,458.18	31,082.61
3,939.32	71,775.07	4,131.66	2,579.81	1,630.21	161.29	499.49	9,239.03
.....
5,661.80	58,390.66	2,988.96	621.98	1,887.62	612.67	1,191.88	6,797.73
.....
23,610.69	17,410.71	3,105.28	.....	11,808.35	.....	.....	59,817.97
.....
124,322.29	675,426.90	71,477.57	80,282.49	84,948.03	8,509.44	12,236.83	239,736.28
.....
13,259.26	12,497.65	6,631.58	8,301.62	4,056.77	47.43	971.23	6,964.86
20,000.00	.....	21,000.00	.....	3,000.00	.....	.....	32,000.00
7,850.59	48,254.19	6,826.88	3,537.13	1,268.65	27.04	597.25	12,336.25
6,306.98	7,242.26	5,330.44	1,272.19	.....	.....	.....	203.10
.....
161,106.23	.....	.....	.....	.....	.....	.....	.....
21,085.72	53,205.13	8,544.41	5,160.64	16,336.82	260.58	1,760.02	34,205.90
.....
.....
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
.....
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
.....
.....
60,681.29	527,920.00	.....	64,967.46	475.86	6,136.00	8,399.37	104,445.72
.....	23,326.29	3,297.60	1,542.98	2,412.52	770.67	617.29	.....
.....
1,437.90	25.00	620.00	2,597.41	.....	.....	.....	.....
.....
62,119.19	551,271.29	3,917.60	69,107.85	2,888.38	6,906.67	90,016.66	104,445.72
.....
.....
21,085.72	53,205.13	8,544.41	5,160.64	16,336.82	260.58	1,760.02	34,205.90
26,797.90	77,582.50	10,255.40	2,080.00	25,487.02	314.00	915.00	46,519.67
.....	7,260.20	996.33	.....	.....	.....	.....	.....
.....
47,883.62	138,047.83	19,796.14	7,240.64	41,823.84	574.58	2,675.02	80,725.57
.....
.....
47,718.71	.....	5,730.32	14,032.54	23,503.48	364.00	1,600.63	93,179.28
.....	161,106.23	.....	.....	.....	.....	.....	.....
35,103.32	107,307.01	90,366.82	8,173.04	41,394.57	999.24	2,273.02	47,095.82
.....
82,822.03	268,413.24	96,097.14	22,205.58	64,898.05	1,363.24	3,873.65	140,275.10
.....
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
.....
.....
36.1	52.5	3.5	74.0	3.1	80.5	65.3	35.9

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

Municipality.....	Stirling	Wark- worth P.V.	Wellington	Whitby	Williams- burg P.V.
Population.....	879		912	5,307	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	8,410.00		200.00	6,394.26	
Substation equipment.....	7,137.02		615.00	33,987.78	
Distribution system, overhead....	4,603.67	5,368.18	14,454.57	43,747.69	1,658.07
Distribution system, underground..					
Line transformers.....	3,560.80	368.93	4,170.03	9,937.65	416.89
Meters.....	4,620.38	1,392.35	4,937.63	13,547.79	969.47
Street light equipment, regular....	1,020.00	299.74	963.72	4,018.38	152.11
Street light equipment, ornamental					
Miscellaneous construction expense	843.49	624.19	792.28	5,902.50	4.00
Steam or hydraulic plant.....					
Old plant.....		3,618.02	2,477.92	1,340.13	
Total plant.....	30,195.36	11,671.41	28,611.15	118,876.18	3,200.54
Bank and cash balance.....	2,676.11	809.69	1,403.51		944.90
Securities and investments.....	6,086.18		5,000.00		1,500.00
Accounts receivable.....	2,734.85	3,074.61	958.64	6,328.84	318.90
Inventories.....	1,384.98			198.54	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	672.05	594.68	1,519.30	8,677.13	1,417.27
Other assets.....					
Total assets.....	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
Deficit.....					
Total.....	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
LIABILITIES					
Debenture balance.....		10,029.45	12,873.59	46,622.39	782.33
Accounts payable.....	1,182.09		3.57	12.71	
Bank overdraft.....				319.06	
Other liabilities.....				579.47	5.00
Total liabilities.....	1,182.09	10,029.45	12,877.16	47,533.63	787.33
RESERVES					
For equity in H-E.P.C. systems...	672.05	594.68	1,519.30	8,677.13	1,417.27
For depreciation.....	8,894.00	1,051.67	4,538.74	8,825.46	1,432.85
Other reserves.....					
Total reserves.....	9,566.05	1,646.35	6,058.04	17,502.59	2,850.12
SURPLUS					
Debentures paid.....	10,000.00	970.55	4,126.41	29,990.11	1,967.67
Local sinking fund.....					
Additional operating surplus.....	23,001.39	3,504.04	14,430.99	39,054.36	1,776.49
Total surplus.....	33,001.39	4,474.59	18,557.40	69,044.47	3,744.16
Total liabilities, reserves and surplus	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
Percentage of net debt to total assets	2.7	64.4	35.8	37.9	13.2

"A"—Concluded

Hydro Municipalities as at December 31, 1930

		THUNDER BAY SYSTEM				
Winchester 1,004	EASTERN ONTARIO SYSTEM SUMMARY	Fort William 24,786	Nipigon P.V.	Port Arthur 19,362	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
299.85	586,903.70	48,927.62	215.03	124,581.04	173,723.69	7,936,974.31
.....	774,024.78	115,284.78	.....	125,034.22	240,319.00	19,485,056.28
9,038.27	2,061,229.88	125,768.69	11,504.29	518,582.60	655,855.58	19,220,326.48
.....	305,798.03	.....	.....	.....	.....	4,932,189.05
2,192.41	686,666.96	52,850.26	1,789.91	59,035.28	113,675.45	7,953,090.23
4,567.43	883,701.80	54,344.96	1,710.36	83,525.63	139,580.95	7,840,948.07
622.46	287,579.06	29,032.50	606.24	55,963.18	85,601.92	1,780,785.67
.....	82,526.94	.....	.....	.....	.....	1,520,891.01
343.94	233,694.44	5,837.05	77.03	32,393.45	38,307.53	3,996,747.77
.....	69,068.75	.....	.....	.....	.....	139,587.28
1,100.00	161,843.90	293,762.46	.....	348,112.93	641,875.39	5,322,690.14
18,164.36	6,133,038.24	725,808.32	15,902.86	1,347,228.33	2,088,939.51	80,129,286.29
1,765.64	284,930.29	36,666.30	2,255.91	97,528.89	136,451.10	2,722,250.12
8,000.00	540,667.13	.....	.....	609,786.86	609,786.86	1,909,439.11
981.99	331,311.35	22,415.00	648.66	107,305.68	130,369.34	4,481,006.92
1,838.20	94,792.10	.....	.....	29,764.71	29,764.71	1,242,994.51
.....	844,410.46	128,171.66	.....	242,060.22	370,231.88	8,396,255.47
7,460.07	432,399.56	123,494.54	681.22	439,017.04	563,192.80	17,346,372.44
.....	100.00	436.00	.....	784.78	1,220.78	173,030.05
38,210.26	8,661,649.13	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,400,634.91
.....	8,676.32	.....	.....	.....	.....	61,395.16
38,210.26	8,670,325.45	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,462,030.07
7,194.36	3,003,190.91	415,500.00	8,103.78	418,100.00	841,703.78	45,091,808.06
841.02	148,361.33	.....	203.23	65,955.65	66,158.88	3,001,186.21
.....	123,518.80	.....	.....	.....	.....	405,663.14
.....	25,488.06	8,012.00	.....	.....	8,012.00	1,642,771.59
8,035.38	3,300,559.10	423,512.00	8,307.01	484,055.65	915,874.66	50,141,429.00
7,460.07	432,399.56	123,494.54	681.22	439,017.04	563,192.80	17,346,372.44
5,817.91	1,209,441.08	43,811.24	1,659.00	285,873.41	331,343.65	12,885,387.51
.....	156,054.79	2,740.80	.....	47,895.60	50,636.40	1,574,655.74
13,277.98	1,797,895.43	170,046.58	2,340.22	772,786.05	945,172.85	31,806,415.69
3,455.64	699,065.62	252,150.00	1,896.22	218,000.00	472,046.22	10,728,279.15
.....	844,410.46	128,171.66	.....	242,060.22	370,231.88	8,396,255.47
13,441.26	2,028,394.84	63,111.58	6,945.20	1,156,574.59	2,266,631.37	15,389,650.76
16,896.90	3,571,870.92	443,433.24	8,841.42	1,616,634.81	2,068,909.47	34,514,185.38
38,210.26	8,670,325.45	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,462,030.07
26.1	33.3	37.6	44.2	11.0	18.2	46.0

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 500	Alvinston	Amherst- burg 2,987
Population.....	1,903	P.V.		612	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,092.08	4,277.53	2,890.81	4,487.57	19,760.34
Commercial light service.....	3,309.90	992.41	1,446.97	2,658.11	7,543.41
Commercial power service.....	15,716.59	1,410.88	1,441.67	784.31	7,407.38
Municipal power.....	661.42			299.60	
Street lighting.....	1,758.00	676.00	568.00	1,854.00	1,972.38
Merchandise.....	250.04			16.47	
Miscellaneous.....	96.96		205.36	90.00	272.20
Total earnings.....	31,884.99	7,356.82	6,552.81	10,190.06	36,955.71
EXPENSES					
Power purchased.....	23,317.48	4,674.23	4,644.89	7,536.31	21,254.66
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,084.43	69.75	126.37	163.23	2,423.38
Line transformer maintenance.....	14.88				44.13
Meter maintenance.....	49.49		5.02		74.06
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	238.99	50.88	35.45	46.71	550.72
Promotion of business.....					
Billing and collecting.....			275.79	262.27	1,956.39
General office, salaries and expenses.....	1,140.10	372.61	64.75	259.15	691.96
Undistributed expenses.....	288.06			31.93	366.94
Truck operation and maintenance....	291.35				413.74
Interest.....	123.59	297.60	68.13	900.04	1,650.10
Sinking fund and principal payments on debentures.....	561.13	468.94	230.30	892.80	1,111.32
Total expenses.....	28,109.50	5,934.01	5,450.70	10,092.44	30,537.40
Gross surplus.....	3,775.49	1,422.81	1,102.11	97.62	6,418.31
Gross loss.....					
Depreciation.....	1,207.00	329.00	455.00	534.00	1,638.00
Net surplus.....	2,568.49	1,093.81	647.11		4,780.31
Net loss.....				436.38	
NUMBER OF CONSUMERS					
Domestic service.....	490	136	134	158	640
Commercial light service.....	81	20	38	59	136
Power service.....	20	2	2	3	17
Total.....	591	158	174	220	793

"B"

Hydro Municipalities for Year Ended December 31, 1930

Ancaster Twp. 4,134	Arkona 371	Aylmer 1,992	Ayr 781	Baden P.V.	Barton Twp. 1,597	Beachville P.V.	Belle River 768
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,851.58	2,356.15	10,059.72	4,290.39	3,389.53	1,943.39	2,914.18	4,164.62
1,528.44	1,345.52	7,563.07	1,623.11	1,250.29	108.22	889.85	1,611.39
446.29	987.70	5,028.21	1,042.10	5,614.67	800.29	8,714.65	424.23
.....	.....	760.56	.....	.....	.....	.....	746.76
671.83	960.00	2,225.00	988.00	520.00	252.00	528.00	825.00
.....	.....	.....	.....	.....	.....	26.70	.....
.....	55.27	1,175.90	.....	79.78	.....	476.29	158.20
10,498.14	5,704.64	26,812.46	7,943.60	10,854.27	3,103.90	13,549.67	7,930.20
5,833.44	3,696.21	15,106.78	5,620.83	8,607.46	1,956.56	8,605.49	4,490.45
.....
2,081.90	40.26	2,438.03	721.03	444.50	172.00	170.66	128.32
21.16	.....	44.98	.....	.....	.....	.....	.....
25.90	.....	75	20.77	.....	.....	10.80	12.75
.....
77.31	59.30	190.86	103.12	148.85	33.45	76.12	93.11
.....
.....	253.89	788.37	326.06	386.82	.....	410.75	407.08
1,579.00	164.30	899.96	26.45	90.90	346.50	17.90	170.50
.....	.....	288.99	45.84	46.73	.....	36.00	57.11
423.60	651.32	1,417.65	396.13	144.15	344.80	165.91	413.32
244.41	479.64	1,090.27	302.36	181.11	564.41	192.88	327.78
10,286.72	5,344.92	22,266.64	7,562.59	10,050.52	3,417.72	9,686.51	6,100.42
211.42	359.72	4,545.82	381.01	803.75	.....	3,863.16	1,829.78
.....	.....	.....	.....	.....	313.82	.....	.....
843.00	280.00	1,266.00	482.00	326.00	285.00	552.00	533.00
.....	79.72	3,279.82	.....	477.75	.....	3,311.16	1,296.78
631.58	.....	.....	100.99	.....	598.82	.....	.....
252	114	609	189	125	70	123	181
37	36	129	47	30	5	27	36
5	4	13	5	3	2	4	4
294	154	751	241	158	77	154	221

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population.....	1,631	618	600	603	4,993
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	8,021.89	3,395.84	3,023.46	2,791.61	34,345.65
Commercial light service.....	5,929.97	1,577.54	820.47	1,382.60	15,398.20
Commercial power service.....	4,021.41	814.42	2,372.35	783.77	14,565.48
Municipal power.....	742.73			194.21	1,827.70
Street lighting.....	2,330.00	1,300.00	943.27	1,292.92	5,225.65
Merchandise.....				6.48	71.80
Miscellaneous.....	106.50	15.81	195.69	689.34	388.37
Total earnings.....	21,152.50	7,103.61	7,355.24	7,140.93	71,822.85
EXPENSES					
Power purchased.....	13,019.66	4,494.73	4,730.10	4,295.13	51,351.35
Substation operation.....					38.99
Substation maintenance.....					403.14
Distribution system, operation and maintenance.....	1,861.48	437.33	1,045.87	199.58	2,355.55
Line transformer maintenance.....	124.00				289.44
Meter maintenance.....	150.66				226.65
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	392.91	66.65	62.02	99.15	427.85
Promotion of business.....					
Billing and collecting.....	869.25			213.48	1,552.03
General office, salaries and expenses.....	620.89	202.55	376.27	200.05	2,712.43
Undistributed expenses.....	227.19		28.77		236.89
Truck operation and maintenance.....					321.61
Interest.....	613.38	688.29	399.29	221.20	656.24
Sinking fund and principal payments on debentures.....	400.34	842.77	460.78	142.99	3,689.11
Total expenses.....	18,279.76	6,732.32	7,103.10	5,371.58	64,261.28
Gross surplus.....	2,872.74	371.29	252.14	1,769.35	7,561.57
Gross loss.....					
Depreciation.....	1,142.00	375.00	248.00	472.00	4,055.00
Net surplus.....	1,730.74		4.14	1,297.35	3,506.57
Net loss.....		3.71			
NUMBER OF CONSUMERS					
Domestic service.....	484	153	144	163	1,324
Commercial light service.....	118	46	40	46	227
Power service.....	14	4	9	5	54
Total.....	616	203	193	214	1,605

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Brantford 29,287	Brantford Twp. 7,053	Bridge- port P.V.	Brigden P.V.	Brussels 706	Burford P.V.	Burgess- ville P.V.	Caledonia 1,475
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
160,236.81	19,839.70	3,483.86	2,259.14	4,895.77	4,305.72	1,221.09	4,441.06
44,198.28	4,059.12	983.98	1,683.04	2,289.87	972.40	650.21	4,601.58
107,895.73	2,667.19	184.65	1,742.06	512.37	1,855.05	1,060.27	2,587.11
26,039.62							
33,977.05	4,563.00	570.00	1,098.42	1,272.00	813.00	299.00	1,634.88
3,355.76	842.27		114.21	7.34	149.26		59.80
375,703.25	31,971.28	5,222.49	6,896.87	8,977.35	8,095.43	3,230.57	13,324.43
253,139.26	15,603.38	3,445.79	5,238.01	6,033.00	4,520.51	2,397.34	8,056.50
5,322.60							
1,047.85							
6,007.51	2,556.03	101.45	199.99	445.44	167.10	31.72	332.64
564.20	25.61						
540.72	396.10	5.13			35.35		65.60
402.36							
4,227.67	771.97	99.84	47.61	70.83	63.73		166.49
1,433.94							
7,738.67	1,376.16		236.61		431.12	24.05	659.53
8,636.15	1,277.46	392.97	245.68	499.76	153.67	15.33	245.69
5,107.64	85.60	54.73			30.55	14.72	81.92
2,692.97							
21,763.56	1,828.37	598.53	107.72	926.84	86.85	54.03	171.32
22,971.00	2,917.64		230.09	830.44	314.36	215.12	201.90
341,596.10	26,838.32	4,698.44	6,305.71	8,806.31	5,803.24	2,752.31	9,981.59
34,107.15	5,132.96	524.05	591.16	171.04	2,292.19	478.26	3,342.84
20,199.00	2,241.00	435.00	311.00	500.00	415.00	169.00	632.00
13,908.15	2,891.96	89.05	280.16		1,877.19	309.26	2,710.84
				328.96			
6,426	750	101	107	195	184	55	275
736	42	16	38	60	35	23	87
111	6	3	6	2	4	2	8
7,273	798	120	151	257	223	80	370

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Cayuga	Chatham	Chippawa	Clifford
Population.....		671	16,104	1,171	461
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,244.91	2,437.21	77,814.48	6,664.61	1,998.00
Commercial light service.....	443.05	2,162.13	69,173.38	1,504.38	1,378.42
Commercial power service.....		1,381.13	66,070.60	587.72	105.25
Municipal power.....			4,750.36	1,362.48	
Street lighting.....	456.00	1,539.96	16,102.76	1,036.00	789.83
Merchandise.....			691.43		
Miscellaneous.....	79.92		1,414.21		61.41
Total earnings.....	2,223.88	7,520.43	236,017.22	11,155.19	4,332.91
EXPENSES					
Power purchased.....	1,367.92	3,745.42	124,679.73	6,224.59	3,106.98
Substation operation.....			9,621.43		
Substation maintenance.....			3,892.86		
Distribution system, operation and maintenance.....	26.25	116.85	7,572.65	575.41	25.41
Line transformer maintenance.....		6.15	1,778.83	34.50	
Meter maintenance.....		41.65	5,988.98	298.80	20.17
Consumers' premises expenses.....			36.26		
Street lighting, operation and main- tenance.....		26.57	8,863.93	443.47	41.06
Promotion of business.....					
Billing and collecting.....		449.17	7,407.24		384.00
General office, salaries and expenses.....	102.69	69.58	15,722.23	903.39	19.28
Undistributed expenses.....		14.01	5,172.52	83.63	24.51
Truck operation and maintenance.....			1,847.48		
Interest.....	267.46	926.12	13,092.05	586.44	406.11
Sinking fund and principal payments on debentures.....	215.94	749.66	9,295.95	618.71	144.35
Total expenses.....	1,980.26	6,145.18	214,972.14	9,768.94	4,171.87
Gross surplus.....	243.62	1,375.25	21,045.08	1,386.25	161.04
Gross loss.....					
Depreciation.....	101.00	507.00	13,668.00	758.00	231.00
Net surplus.....	142.62	868.25	7,377.08	628.25	
Net loss.....					69.96
NUMBER OF CONSUMERS					
Domestic service.....	40	94	3,815	280	95
Commercial light service.....	8	48	701	43	38
Power service.....		3	110	7	1
Total.....	48	145	4,626	330	134

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Clinton 1,937	Comber P.V.	Cottam P.V.	Courtright 394	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 508
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,404.08	2,592.84	2,585.18	1,943.52	1,673.53	1,275.24	2,524.25	2,881.87
5,603.11	2,266.22	1,339.16	1,023.31	988.10	686.33	888.77	1,915.97
4,527.15	3,221.99	360.00		1,265.06		552.98	1,285.03
927.85			389.88				
1,968.01	732.00	403.00	774.00	492.00	252.00	587.16	825.00
272.50							
621.77	78.04	5.85	9.09	5.06	142.49	112.13	288.44
25,324.47	8,891.09	4,693.19	4,139.80	4,423.75	2,356.06	4,665.29	7,196.31
14,508.56	5,954.65	2,469.04	3,045.65	3,000.03	1,110.51	2,545.70	4,569.44
204.33							
295.11	249.71	65.93	156.47	185.89	13.40	52.18	76.79
18.81		72.50					
42.91		6.00					73.56
260.73	27.38	119.56	50.00	35.53	18.36	40.45	42.93
905.04	300.00					112.06	
1,498.92	393.01	449.20	221.36	69.91	131.28	14.09	407.77
567.83	15.02					13.67	
205.10							
2,045.59	188.32	450.65	345.33	141.50	135.03	154.07	449.37
1,305.66	404.63	303.10	498.28	94.10	125.18	128.11	241.69
21,858.59	7,532.72	3,935.98	4,317.09	3,526.96	1,533.76	3,060.33	5,861.55
3,465.88	1,358.37	757.21		896.79	822.30	1,604.96	1,334.76
			177.29				
654.00	386.00	297.00	192.00	179.00	148.00	332.00	450.00
2,811.88	972.37	460.21		717.79	674.30	1,272.96	884.76
			369.29				
514	100	105	71	67	48	130	154
120	46	26	23	25	19	31	61
15	2	1	1	1		2	5
649	148	132	95	93	67	163	220

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Dresden	Drumbo	Dublin	Dundas	Dunnville
Population.....	1,465	P.V.	P.V.	5,052	3,450
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,515.99	2,057.72	1,261.72	21,023.03	11,151.21
Commercial light service.....	4,819.53	768.16	926.70	11,812.17	11,238.83
Commercial power service.....	5,346.34	841.23	516.59	22,602.48	11,607.96
Municipal power.....	467.30			441.96	2,899.28
Street lighting.....	1,865.55	538.00	750.00	3,592.31	4,160.38
Merchandise.....	128.72			550.01	
Miscellaneous.....	187.39			649.48	616.77
Total earnings.....	18,330.82	4,205.11	3,455.01	60,671.44	41,674.43
EXPENSES					
Power purchased.....	12,010.90	2,976.27	2,364.79	37,389.41	22,123.90
Substation operation.....					
Substation maintenance.....				122.22	
Distribution system, operation and maintenance.....	631.40	433.47	39.94	6,027.33	1,542.24
Line transformer maintenance.....				189.51	98.14
Meter maintenance.....				595.78	212.33
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	25.20	55.82	87.01	538.40	284.96
Promotion of business.....					
Billing and collecting.....	626.30	165.39	157.50	1,278.53	
General office, salaries and expenses.....	586.80	47.11	49.00	1,957.36	2,472.14
Undistributed expenses.....	136.57	15.05	5.71	1,002.01	321.97
Truck operation and maintenance.....				897.14	129.82
Interest.....	240.29	121.96	189.81	1,690.40	3,779.82
Sinking fund and principal payments on debentures.....	1,132.00	140.81	375.37	1,783.66	2,099.01
Total expenses.....	15,389.46	3,955.88	3,269.13	53,471.75	33,064.33
Gross surplus.....	2,941.36	249.23	185.88	7,199.69	8,610.10
Gross loss.....					
Depreciation.....	814.00	91.00	238.00	3,509.00	2,859.00
Net surplus.....	2,127.36	158.23		3,690.69	5,751.10
Net loss.....			52.12		
NUMBER OF CONSUMERS					
Domestic service.....	349	83	38	1,166	604
Commercial light service.....	117	24	27	177	188
Power service.....	14	2	3	42	29
Total.....	480	109	68	1,385	821

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Dutton 805	East Windsor 15,105	Elmira 2,795	Elora 1,244	Embro 424	Erieau 210	Erie Beach 21	Essex 1,732
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,408.09	83,936.97	15,917.45	6,667.85	2,599.74	3,176.24	1,229.61	8,641.52
2,774.14	25,818.99	6,918.35	3,648.42	1,720.28	866.44	210.56	6,049.65
3,148.57	68,914.40	13,120.18	8,391.00	1,460.86	550.42		6,450.93
		906.58					1,513.02
943.20	8,134.67	1,835.17	1,652.00	702.00	378.00		2,159.35
35.54		43.83					
244.80	1,442.08	538.86	220.79				494.30
10,554.34	188,247.11	39,280.42	20,580.06	6,482.88	4,971.10	1,440.17	25,308.77
7,168.94	109,481.88	29,957.00	15,252.21	3,756.59	3,062.56	837.11	11,230.81
96.87	5,853.07	1,867.89	2,242.40	210.78	345.76	149.02	1,086.07
12.05	995.33	108.91			10.55		125.48
49.23	4,547.88	141.06	110.65		42.05		16.95
	2,297.67						
92.75	3,546.35	208.61	116.60	81.00	76.50		29.43
684.05	9,845.95	974.82		175.32	370.42		332.79
338.00	3,463.43	534.31	1,281.64	30.50	54.07	172.05	2,921.03
54.12	4,046.33	916.70	233.23	35.17	18.75		271.39
		225.73	209.52				419.90
364.03	6,935.64	1,082.45	330.62	302.06	355.10	186.34	1,251.70
285.98	5,679.78	904.66	629.94	344.45	272.85	106.83	405.97
9,146.02	156,693.31	36,922.14	20,406.81	4,935.67	4,608.61	1,451.35	18,091.52
1,408.32	31,553.80	2,358.28	173.25	1,547.21	362.49		7,217.25
						11.18	
187.00	7,955.00	1,796.00	941.00	412.00	260.00	69.00	1,360.00
1,221.32	23,598.80	562.28		1,135.21	102.49		5,857.25
			767.75			80.18	
204	2,817	538	305	95	116	61	447
70	304	126	77	47	11	2	118
7	43	21	3	3	2		20
281	3,164	685	385	145	129	63	585

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Etobicoke Twp. 14,212	Exeter 1,615	Fergus 2,286	Fonthill 763	Forest 1,415
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	95,905.81	10,769.94	14,022.53	4,784.55	10,184.51
Commercial light service.....	22,906.22	5,132.00	6,214.30	832.97	4,621.17
Commercial power service.....	14,359.04	5,554.55	11,069.44	325.12	4,177.56
Municipal power.....	2,185.58	506.22		262.74	879.69
Street lighting.....	15,344.42	1,899.00	2,587.00	1,138.00	2,270.00
Merchandise.....		149.04			347.91
Miscellaneous.....	152.80	671.04	32.72	1.50	1,313.22
Total earnings.....	150,853.87	24,681.79	33,925.99	7,344.88	23,794.06
EXPENSES					
Power purchased.....	75,834.75	13,545.38	23,728.92	3,325.80	12,985.87
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	11,093.85	642.34	1,278.88	676.35	2,223.69
Line transformer maintenance.....	1,882.60	80.79	58.38		
Meter maintenance.....	1,194.87	74.24	206.50	71.57	320.86
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	2,412.15	364.87	376.75	40.36	413.54
Promotion of business.....	31.99				
Billing and collecting.....	6,596.82	569.72			562.50
General office, salaries and expenses.....	5,440.91	2,808.13	1,766.85	518.99	1,145.88
Undistributed expenses.....	3,477.00	332.78	139.13		289.25
Truck operation and maintenance....	2,498.20	544.23	370.77		406.78
Interest.....	13,246.52	589.36	1,610.91	1,120.16	1,299.84
Sinking fund and principal payments on debentures.....	9,572.58	829.69	2,399.91	872.29	900.00
Total expenses.....	133,282.24	20,381.53	31,937.00	6,625.52	20,548.21
Gross surplus.....	17,571.63	4,300.26	1,988.99	719.36	3,245.85
Gross loss.....					
Depreciation.....	10,496.00	1,183.00	1,248.00	421.00	1,316.00
Net surplus.....	7,075.63	3,117.26	740.99	298.36	1,929.85
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	3,653	441	599	209	450
Commercial light service.....	329	118	119	26	125
Power service.....	23	10	18	4	23
Total.....	4,005	569	736	239	598

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Galt 13,236	George- town 1,992	Glencoe 759	Goderich 4,221	Granton P.V.	Guelph 19,857	Hagers- ville 1,246	Hamilton 134,566
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
105,465.02	12,790.62	5,420.70	25,187.65	1,656.60	100,184.50	4,597.80	798,848.99
43,460.78	5,556.57	3,407.26	12,508.69	1,025.42	45,272.62	4,472.92	190,689.83
79,763.81	20,408.46	1,825.76	14,398.04	987.58	98,220.57	27,059.41	870,253.13
3,597.14	750.35	1,315.09	3,052.87	.....	20,919.49	.....	76,322.76
21,746.50	2,096.75	1,934.00	3,782.50	370.00	20,422.07	1,200.00	99,935.12
613.51	35.01	18.89	718.70	.....	1,005.10	54.81	.....
3,294.53	689.71	25.73	57.71	106.12	3,294.55	573.70	18,773.34
257,941.29	42,327.47	13,947.43	59,706.16	4,145.72	289,318.90	37,958.64	2,054,823.17
169,652.74	32,356.99	8,726.14	40,588.51	2,939.35	197,004.93	26,982.72	1,408,285.24
4,930.72	.....	.....	3,499.32	.....	2,862.26	.....	31,096.88
456.42	.....	.....	.....	.....	.....	.....	21,021.97
942.32	1,746.02	178.03	2,401.34	74.45	3,929.54	2,392.29	35,629.48
22.39	.....	.....	140.12	.....	2,053.73	8.63	8,542.96
1,640.77	179.52	.....	77.39	.....	3,005.73	106.72	13,800.99
.....	.....	.....	.....	.....	.....	.....	8,881.58
3,339.17	139.68	187.43	510.01	30.10	6,979.02	190.18	11,796.62
950.02	.....	.....	.....	.....	.....	.....	14,789.05
2,884.89	.....	569.57	652.80	124.78	6,573.61	757.50	37,179.89
4,961.48	2,863.69	466.18	2,582.57	36.88	9,386.33	504.15	56,809.01
5,139.42	409.19	149.18	636.58	15.30	966.58	161.25	35,436.93
490.43	619.12	.....	339.02	.....	1,678.97	588.41	.....
21,043.00	791.01	695.19	2,753.00	169.56	4,255.60	227.95	135,873.22
17,128.60	642.65	835.82	2,038.47	100.07	4,093.30	322.87	134,485.54
233,582.37	39,747.87	11,807.54	56,219.13	3,490.49	242,789.60	32,242.67	1,953,629.36
24,358.92	2,579.60	2,139.89	3,487.03	655.23	46,529.30	5,715.97	101,193.81
.....
19,657.09	1,691.00	787.00	4,412.00	197.00	12,501.00	913.00	67,674.02
4,701.83	888.60	1,352.89	.....	458.23	34,028.30	4,802.97	33,519.79
.....	.....	.....	924.97	.....	.....	.....	.....
.....
3,450	637	219	1,184	79	5,000	300	32,309
498	130	79	216	31	715	106	3,564
116	24	6	21	1	136	15	855
4,064	791	304	1,421	111	5,851	421	36,728

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Harriston	Harrow	Hensall	Hespeler	Highgate
Population.....	1,274	P.V.	753	2,719	350
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,175.18	7,619.44	3,507.49	17,836.46	1,672.05
Commercial light service.....	3,783.85	4,149.56	1,816.45	5,550.67	812.20
Commercial power service.....	5,773.69	3,675.80	2,743.74	16,911.94	1,953.46
Municipal power.....	487.72			926.68	
Street lighting.....	1,199.92	854.60	912.00	2,559.64	550.00
Merchandise.....					
Miscellaneous.....		177.08	121.88	29.80	129.61
Total earnings.....	17,420.36	16,476.48	9,101.56	43,815.19	5,117.32
EXPENSES					
Power purchased.....	11,850.46	10,638.91	5,924.02	32,425.38	3,961.13
Substation operation.....				776.01	
Substation maintenance.....				81.50	
Distribution system, operation and maintenance.....	1,184.84	223.34	405.67	2,810.21	148.66
Line transformer maintenance.....	7.08	227.70		112.81	
Meter maintenance.....	109.13	361.23		81.72	
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	145.95	188.92	85.27	434.20	39.07
Promotion of business.....					
Billing and collecting.....	697.04	655.01	369.98		360.00
General office, salaries and expenses.....	162.50		534.22	1,837.20	77.16
Undistributed expenses.....	172.59		33.95	559.39	29.38
Truck operation and maintenance.....	362.19			150.01	
Interest.....	786.35	613.94	489.77	1,749.00	182.56
Sinking fund and principal payments on debentures.....	1,379.75	436.53	372.66	1,902.29	142.70
Total expenses.....	16,857.88	13,345.58	8,215.54	42,919.72	4,940.66
Gross surplus.....	562.48	3,130.90	886.02	895.47	176.66
Gross loss.....					
Depreciation.....	835.00	599.00	548.00	2,280.00	315.00
Net surplus.....		2,531.90	338.02		
Net loss.....	272.52			1,384.53	138.34
NUMBER OF CONSUMERS					
Domestic service.....	311	231	173	688	95
Commercial light service.....	97	76	54	109	35
Power service.....	12	4	13	24	5
Total.....	420	311	240	821	135

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Humberstone 1,597	Ingersoll 5,050	Jarvis 471	Kingsville 2,223	Kitchener 28,282	Lambeth P.V.	La Salle 628	Leamington 5,269
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,290.28	32,567.41	1,648.37	13,405.06	181,079.68	3,493.88	9,300.58	24,072.55
2,805.14	16,093.05	1,300.07	6,208.22	103,749.02	1,612.35	3,177.73	15,241.16
6,638.05	24,668.44	4,113.93	2,173.50	225,304.43		2,507.78	12,238.09
.....	1,749.41	.....	1,125.16	26,693.61	314.65	.....	5,149.47
1,296.00	4,607.50	840.00	3,700.00	30,174.93	435.00	1,094.50	7,346.07
.....	380.47	.....	.....	.....	.....	.....	.....
27.75	2,184.99	39.43	1,173.06	4,561.66	5.60	22.38	772.25
20,057.22	82,251.27	7,941.80	27,785.00	571,563.33	5,861.48	16,102.97	64,819.59
9,569.06	55,404.14	5,845.48	14,497.78	400,504.21	3,692.48	8,064.20	33,535.64
.....	403.51	.....	.....	8,093.40	.....	.....	.....
.....	.....	.....	.....	1,820.33	.....	.....	.....
1,982.64	3,086.35	67.03	3,255.91	15,966.67	8.80	1,789.65	4,389.33
431.48	81.68	.....	.....	223.48	.....	7.60	3.70
266.80	536.97	22.15	289.86	5,011.02	.....	227.02	878.77
.....	.....	.....	.....	218.25	.....	.....	.....
153.96	568.95	77.30	393.33	10,348.64	29.89	14.45	1,061.00
.....	.....	.....	.....	176.42	.....	.....	.....
.....	974.75	386.39	978.69	10,786.79	.....	.....	1,423.83
780.82	4,425.38	128.82	720.25	9,278.58	356.31	402.43	3,527.51
6.00	1,227.44	20.06	474.64	3,936.09	.....	218.00	1,422.88
164.51	492.00	.....	375.81	3,391.30	.....	196.46	928.29
1,368.62	3,348.77	463.92	1,875.37	14,111.40	207.23	819.40	2,438.67
1,800.00	1,677.35	415.21	567.06	20,872.15	114.39	531.96	1,746.19
16,523.89	72,227.29	7,426.36	23,428.70	504,738.73	4,409.10	12,271.17	51,355.81
3,533.33	10,023.98	515.44	4,356.30	66,824.60	1,452.38	3,831.80	13,463.78
906.00	3,716.00	332.00	1,591.00	25,528.65	267.00	681.00	2,708.00
2,627.33	6,307.98	183.44	2,765.30	41,295.95	1,185.38	3,150.80	10,755.78
480	1,321	93	702	6,751	107	198	1,256
73	235	37	165	938	19	30	244
7	43	4	15	243	1	3	29
560	1,599	134	882	7,932	127	231	1,529

STATEMENT

Detailed Operating Reports of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Listowel	London	London Twp. 7,821	Lucan	Lynden
Population.....	2,545	68,404		573	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,321.31	445,925.63	8,948.59	4,715.32	1,765.42
Commercial light service.....	7,924.86	190,442.03	1,566.17	1,757.01	736.95
Commercial power service.....	10,368.14	380,650.32	1,505.25	1,754.78	916.65
Municipal power.....	1,527.54	29,477.43			
Street lighting.....	3,591.06	50,160.45	664.50	1,035.00	388.97
Merchandise.....		5,428.96			
Miscellaneous.....	307.50	34,404.24	196.03	233.95	194.54
Total earnings.....	41,040.41	1,136,489.06	12,880.54	9,496.06	4,002.53
EXPENSES					
Power purchased.....	29,061.39	690,530.57	8,279.59	5,434.53	3,090.99
Substation operation.....		15,799.28			
Substation maintenance.....	98.17	9,381.71			
Distribution system, operation and maintenance.....	2,222.78	13,305.87	534.13	936.56	128.24
Line transformer maintenance.....	24.56	2,202.30			
Meter maintenance.....	187.20	16,190.48			
Consumers' premises expenses.....		3,427.51			
Street lighting, operation and main- tenance.....	373.73	5,813.47	150.49	69.90	22.44
Promotion of business.....		3,382.77			
Billing and collecting.....	719.21	22,262.92	299.17	251.24	150.00
General office, salaries and expenses.	616.85	37,688.12	382.00	188.80	13.80
Undistributed expenses.....	359.37	26,249.64	10.16	10.17	71.13
Truck operation and maintenance...	200.10	7,380.47			
Interest.....	653.25	55,284.97	808.94	281.47	184.81
Sinking fund and principal payments on debentures.....	1,825.35	55,569.20	815.67	539.83	124.47
Total expenses.....	36,341.96	964,469.28	11,280.15	7,712.50	3,785.88
Gross surplus.....	4,698.45	172,019.78	1,600.39	1,783.56	216.65
Gross loss.....					
Depreciation.....	2,108.00	81,138.93	557.00	544.00	244.00
Net surplus.....	2,590.45	90,880.85	1,043.39	1,239.56	
Net loss.....					27.35
NUMBER OF CONSUMERS					
Domestic service.....	695	16,690	293	167	77
Commercial light service.....	157	2,634	13	47	18
Power service.....	24	508	3	9	1
Total.....	876	19,832	309	223	96

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Markham	Merlin	Merritton	Milton	Milverton	Mimico	Mitchell	Moorefield
969	P.V.	2,575	1,775	1,122	5,762	1,645	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,617.46	2,032.80	12,065.94	10,899.18	5,056.10	52,674.50	9,755.00	690.99
2,526.44	1,268.33	2,287.24	5,224.28	2,560.57	8,522.67	4,657.69	728.14
4,848.52	4,195.80	53,575.16	29,835.26	4,645.24	4,042.80	4,644.80	1,323.32
				327.14	3,275.24	763.71	
1,340.00	688.00	2,773.00	1,845.00	1,003.25	8,448.96	2,061.27	375.00
			209.39			2,789.69	
256.60	290.29		1,644.96	138.10	1,178.30	294.69	67.68
14,589.02	8,475.22	70,701.34	49,658.07	13,730.40	78,142.47	24,966.85	3,185.13
7,969.63	5,999.20	49,366.47	29,882.19	11,726.56	46,028.91	13,526.25	2,574.58
			242.05			416.64	
					706.52		
1,107.55	207.36	3,047.11	3,412.48	256.51	7,612.65	590.77	69.32
		183.77	20.32				
		630.51	159.77	64.62	522.61	245.61	
84.57	49.71	297.47	279.27	141.70	1,510.36	192.40	65.07
				633.29	1,760.78	900.00	
970.11	172.40	2,186.36	1,765.61	214.76	1,739.32	961.53	153.92
	49.06	542.96	545.26	105.44	1,974.88	365.17	
		300.41	541.49		854.94	114.15	
313.15	599.97	1,396.65	1,742.76	278.16	4,817.78	77.94	138.64
677.65	577.02	1,280.55	1,386.46	576.64	4,113.25	601.40	245.77
11,122.66	7,654.72	59,232.26	39,977.66	13,997.68	71,642.00	17,991.86	3,247.30
3,466.36	820.50	11,469.08	9,680.41		6,500.47	6,974.99	
				267.28			62.17
614.00	320.00	1,757.00	2,130.30	616.00	4,586.00	976.00	164.00
2,852.36	500.50	9,712.08	7,550.11		1,914.47	5,998.99	
				883.28			226.17
252	102	620	456	211	1,628	445	44
62	39	55	98	73	130	112	32
10	4	8	20	8	14	22	2
324	145	683	574	292	1,772	579	78

STATEMENT

Detailed Operating Reports of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Mount Brydges P.V.	Newbury 298	New Hamburg 1,454	New Toronto 5,622	Niagara Falls 18,403
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,463.41	1,093.34	9,964.94	30,942.44	150,408.18
Commercial light service.....	984.39	865.75	4,006.12	10,151.94	65,260.95
Commercial power service.....	883.04	621.46	4,567.02	107,845.18	64,546.04
Municipal power.....				10,237.00	13,386.30
Street lighting.....	506.00	690.00	2,233.27	8,429.04	29,896.43
Merchandise.....			545.27		
Miscellaneous.....	169.07	42.48	210.94	1,897.25	41.38
Total earnings.....	5,005.91	3,313.03	21,527.56	169,502.85	323,539.28
EXPENSES					
Power purchased.....	2,968.52	1,978.67	14,588.12	139,431.87	185,880.05
Substation operation.....			383.96		8,653.56
Substation maintenance.....					
Distribution system, operation and maintenance.....	41.86	23.09	527.98	6,015.63	5,754.38
Line transformer maintenance.....			55.46	75.60	881.84
Meter maintenance.....	3.37		414.16	518.80	4,523.08
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	37.57	14.16	363.66	1,801.22	3,315.48
Promotion of business.....					38.63
Billing and collecting.....	167.36		513.26	2,601.65	7,224.38
General office, salaries and expenses.....	121.72	255.92	533.64	3,651.82	8,633.52
Undistributed expenses.....	25.63		300.98	3,670.96	7,093.67
Truck operation and maintenance.....			347.13		3,095.64
Interest.....	160.30	392.15	518.62	266.40	22,408.28
Sinking fund and principal payments on debentures.....	130.06	400.00	684.61	262.85	18,609.67
Total expenses.....	3,656.39	3,063.99	19,231.58	158,296.80	276,112.18
Gross surplus.....	1,349.52	249.04	2,295.98	11,206.05	47,427.10
Gross loss.....					
Depreciation.....	253.00	251.00	1,203.00	4,230.00	21,475.00
Net surplus.....	1,096.52		1,092.98	6,976.05	25,952.10
Net loss.....		1.96			
NUMBER OF CONSUMERS					
Domestic service.....	135	60	342	1,275	4,532
Commercial light service.....	35	28	91	138	720
Power service.....	3	2	12	26	95
Total.....	173	90	445	1,439	5,347

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Niagara-on-the-Lake 1,547	Norwich 1,213	Oil Springs 466	Otterville P.V.	Palmerston 1,792	Paris 4,156	Parkhill 959	Petrolia 2,671
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,024.74	7,662.74	1,659.24	2,095.67	9,882.62	24,481.40	4,882.37	11,059.06
2,980.00	2,697.69	983.27	1,564.55	5,586.33	7,995.27	2,785.94	6,576.83
912.70	1,565.86	7,831.10	614.39	4,831.57	11,634.50	953.83	23,952.88
1,727.89	749.52	.....	61.44	1,393.57	1,225.00	562.76	.....
2,629.92	2,100.00	738.00	409.72	1,788.05	5,724.90	1,438.00	2,639.91
.....	379.38	.....	.....	.....	47.39	.....	36.82
.....	1,042.64	224.80	280.22	.....	2,500.05	132.06	734.47
22,275.25	16,197.83	11,436.41	5,025.99	23,482.14	53,608.51	10,754.96	44,999.97
11,629.95	9,784.24	6,916.98	3,088.47	17,020.89	33,884.86	8,039.23	29,087.19
.....	.....	.....	.....	.....	194.66	.....	8.67
2,429.19	1,395.04	978.89	248.84	1,136.42	4,216.28	358.68	2,378.84
.50	24.35	.....	19.44	.....	.....	.....	62.50
112.00	422.51	.....	148.34	222.04	192.16	.....	330.21
687.80	406.83	37.74	95.97	108.31	884.16	148.51	219.68
.....	631.00	278.06	107.88	587.65	1,443.98	292.63	758.79
1,624.82	367.98	161.58	55.85	716.11	1,230.69	187.00	3,329.84
5.96	291.87	433.57	31.40	161.80	387.12	44.78	496.10
378.35	213.43	24.26	.....	60.16	299.68	.....	371.83
1,221.11	406.48	630.78	116.86	607.82	2,032.04	589.54	1,824.47
632.88	488.35	947.25	276.57	722.56	1,521.42	827.80	1,892.21
18,722.56	14,432.08	10,409.11	4,189.62	21,343.76	46,287.05	10,488.17	40,760.33
3,552.69	1,765.75	1,027.30	836.37	2,138.38	7,321.46	266.79	4,239.64
1,235.00	702.00	650.00	321.00	1,150.00	4,275.00	610.00	2,455.00
2,317.69	1,063.75	377.30	515.37	988.38	3,046.46	.....	1,784.64
.....	.....	.....	.....	.....	.....	343.21	.....
452	348	71	108	399	1,053	224	633
75	84	30	40	102	176	74	182
10	7	30	3	8	25	5	57
537	439	131	151	509	1,254	303	872

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Plattsville	Point Edward	Port Colborne	Port Credit	Port Dalhousie
Population.....	P.V.	1,378	5,461	1,400	1,656
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,149.30	5,849.83	29,972.85	11,431.33	12,914.43
Commercial light service.....	953.21	1,782.84	13,041.07	4,824.69	2,010.72
Commercial power service.....	757.09	19,891.18	9,550.07	720.10	4,014.48
Municipal power.....			6,225.20	947.77	
Street lighting.....	544.00	924.00	7,009.07	3,354.00	1,612.50
Merchandise.....					
Miscellaneous.....		563.79	5,279.27	32.03	
Total earnings.....	4,403.60	29,011.64	71,077.53	21,309.92	20,552.13
EXPENSES					
Power purchased.....	3,314.10	23,722.54	42,694.76	14,287.89	11,782.56
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	60.48	243.70	3,890.68	1,390.61	1,579.58
Line transformer maintenance.....		53.80	161.11		9.67
Meter maintenance.....		63.36	1,227.56		102.75
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	31.40	212.81	1,188.08	475.04	181.02
Promotion of business.....			850.60		
Billing and collecting.....	187.60	719.32	1,469.57	719.82	
General office, salaries and expenses.....	7.20	912.30	2,634.96	240.94	1,785.83
Undistributed expenses.....	30.03	347.00	1,327.05		
Truck operation and maintenance.....			1,267.53		241.50
Interest.....	176.38	722.84	4,709.69	520.05	610.14
Sinking fund and principal payments on debentures.....	163.85	794.02	5,045.17	449.30	1,120.84
Total expenses.....	3,971.04	27,791.69	66,466.76	18,083.65	17,413.89
Gross surplus.....	432.56	1,219.95	4,610.77	3,226.27	3,138.24
Gross loss.....					
Depreciation.....	82.00	895.00	3,524.00	1,224.00	815.00
Net surplus.....	350.56	324.95	1,086.77	2,002.27	2,323.24
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	85	289	1,295	399	575
Commercial light service.....	25	39	201	73	50
Power service.....	1	14	20	5	80
Total.....	111	342	1,516	477	705

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Port Dover 1,628	Port Rowan 681	Port Stanley 583	Preston 5,884	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,983
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,546.64	2,443.38	11,067.61	47,275.32	2,216.22	2,720.12	6,180.30	9,993.51
4,619.04	1,766.00	3,240.09	19,921.17	609.45	201.64	3,202.72	4,994.09
4,695.05	102.76	3,807.07	42,017.95	2,670.87	771.57	2,220.17	5,428.64
.....	.....	393.49	1,080.03	.....	.....	399.94	1,021.61
2,926.84	1,242.00	1,914.00	4,960.32	312.00	543.96	1,389.00	3,397.15
.....	.....	.....	.....	.....	.....	.....	135.63
.....	.....	281.20	187.96	32.55	.....	92.28	556.19
18,787.57	5,554.14	20,703.46	115,442.75	5,808.54	4,269.84	13,484.41	25,526.82
10,219.26	4,459.47	12,238.52	85,895.65	4,867.33	2,726.79	8,152.59	15,266.35
.....	.....	.....	4,386.34	.....	.....	.....	.....
.....	.....	.....	98.09	.....	.....	.....	.....
1,233.46	73.11	2,301.85	5,586.25	147.25	235.08	2,225.62	780.56
.....	.....	110.39	306.19	.....	.....	31.15	23.39
91.95	.....	76.75	1,319.83	.....	63.30	189.25	239.12
134.04	26.33	130.15	834.78	39.11	26.98	128.63	651.96
551.48	.....	.....	.....	.....	.....	.....	.....
446.62	372.48	712.19	1,845.08	232.95	.....	.....	690.09
44.63	27.61	487.15	987.56	2.00	337.42	889.37	1,456.54
160.11	72.67	301.44	1,071.63	33.36	.....	.....	248.98
169.47	.....	173.67	698.55	.....	.....	.....	.....
1,079.68	1,097.72	523.29	3,263.19	112.21	423.00	355.04	463.72
1,766.62	335.99	709.53	4,659.06	111.08	392.01	579.72	300.30
15,897.32	6,465.38	17,764.93	110,952.20	5,545.29	4,204.58	12,551.37	20,121.01
2,890.25	.....	2,938.53	4,490.55	263.25	65.26	933.04	5,405.81
.....	911.24	.....	.....	.....	.....	.....	.....
1,154.00	300.00	1,023.00	7,123.00	212.00	280.00	503.00	1,242.00
1,736.25	.....	1,915.53	.....	51.25	.....	430.04	4,163.81
.....	1,211.24	.....	2,632.45	.....	214.74	.....	.....
397	88	566	1,538	80	66	317	540
132	33	76	225	16	6	64	154
13	1	14	51	3	1	12	22
542	122	656	1,814	99	73	393	716

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Riverside	Rockwood	Rodney	St. Catharines 24,094	St. Clair Beach 107
Population.....	4,603	P.V.	752		
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	44,159.30	2,831.95	3,037.96	140,271.42	2,313.50
Commercial light service.....	5,074.70	1,107.25	2,343.06	43,424.93	1,485.45
Commercial power service.....	7,525.89	378.35	1,592.46	90,566.30	606.62
Municipal power.....	2,791.72				
Street lighting.....	4,682.74	747.00	942.00	24,778.77	
Merchandise.....					
Miscellaneous.....		6.16	299.80	5,735.08	
Total earnings.....	64,234.35	5,070.71	8,215.28	304,776.50	4,405.57
EXPENSES					
Power purchased.....	35,217.37	4,109.65	5,400.04	184,826.01	2,648.72
Substation operation.....				6,288.30	
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,486.95	118.03	493.27	15,660.34	734.71
Line transformer maintenance.....	568.94			1,134.36	54.56
Meter maintenance.....	2,069.54	87.27	24.53	2,631.08	136.24
Consumers' premises expenses.....	1,072.77				57.17
Street lighting, operation and maintenance.....	1,344.15	84.76	83.23	3,945.26	
Promotion of business.....				1,855.30	
Billing and collecting.....	3,582.25		517.50	7,370.57	174.25
General office, salaries and expenses.....	1,731.42	477.14	18.24	12,213.78	8.42
Undistributed expenses.....	1,430.25	13.19	24.42	5,103.15	126.84
Truck operation and maintenance.....				5,535.74	
Interest.....	3,861.69	67.91	352.19	10,609.27	249.57
Sinking fund and principal payments on debentures.....	3,159.25		235.36	8,457.53	272.42
Total expenses.....	57,524.58	4,957.95	7,148.78	265,630.69	4,462.90
Gross surplus.....	6,709.77	112.76	1,066.50	39,145.81	
Gross loss.....					57.33
Depreciation.....	3,387.00	383.00	418.00	15,086.00	270.00
Net surplus.....	3,322.77		648.50	24,059.81	
Net loss.....		270.24			327.33
NUMBER OF CONSUMERS					
Domestic service.....	1,127	139	188	5,979	51
Commercial light service.....	56	32	75	644	9
Power service.....	8	1	5	144	2
Total.....	1,191	172	268	6,767	62

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

St. George	St. Jacobs	St. Marys	St. Thomas	Sandwich	Sarnia	Scarboro'	Seaforth
P.V.	P.V.	4,072	16,567	10,655	16,763	Twp. 17,105	1,702
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,652.01	3,149.52	26,279.64	101,984.90	96,806.75	100,945.88	77,958.80	9,569.87
805.88	1,163.93	8,558.17	44,999.76	20,331.08	47,278.37	17,696.22	5,588.05
2,188.99	3,102.75	16,186.02	51,077.49	19,954.62	163,372.87	12,611.58	4,189.08
.....	.....	1,544.43	6,381.69	.....	.....	10,544.38	654.63
297.55	445.00	3,496.66	14,066.89	10,455.21	15,232.73	16,963.91	1,520.00
.....	.....	.....	.....	484.87	80.15	.....	.....
127.92	174.46	415.73	3,009.80	2,642.34	3,570.45	670.47	1,032.45
6,072.35	8,035.66	56,480.65	221,520.53	150,674.87	330,480.45	136,445.36	22,554.08
.....
5,004.78	6,422.73	43,522.12	140,171.03	106,849.50	205,726.95	68,995.14	14,476.06
.....	.....	1,348.24	6,644.14	.....	2,743.29	112.62	.....
.....	.....	38.90	560.49	.....	21.88	.....	.....
.....	5.42	904.25	6,588.88	3,164.21	6,493.97	4,169.41	1,951.97
.....	.....	175.29	560.22	382.56	1,072.47	1,258.16	34.54
.50	154.08	735.90	1,722.70	1,443.20	1,645.41	542.93	83.76
.....	.....	.....	1,752.06	.....	.....	.....	.....
75.74	89.93	818.32	2,518.22	1,851.46	2,996.44	2,348.86	186.62
.....	.....	3.80	181.36	.....	.....	.....	138.75
566.09	.....	1,266.36	4,579.86	6,266.63	4,315.67	4,863.55	611.58
42.75	461.47	1,652.33	12,217.19	6,072.48	10,210.82	7,077.86	569.05
53.20	.....	924.15	765.05	1,993.15	8,468.81	2,430.26	122.63
.....	.....	611.53	2,944.41	1,377.00	3,717.74	2,299.08	206.71
227.91	174.91	1,387.20	2,347.20	7,573.07	12,630.13	13,066.03	1,300.46
184.92	327.18	2,311.98	4,569.13	5,446.05	17,202.87	11,291.12	445.75
6,155.89	7,635.72	55,700.37	195,006.74	142,419.31	277,246.45	118,455.02	20,127.88
.....	399.94	780.28	26,513.79	8,255.56	53,234.00	17,990.34	2,426.20
83.54	.....	.....	.....	.....	.....	.....	.....
287.00	299.00	3,704.00	11,274.00	5,126.00	15,700.00	9,164.00	604.00
.....	100.94	.....	15,239.79	3,129.56	37,534.00	8,826.34	1,822.20
370.54	.....	2,923.72	.....	.....	.....	.....	.....
.....
131	102	1,008	4,126	2,802	4,476	3,904	496
33	25	187	642	236	609	323	120
3	6	37	106	37	85	33	12
167	133	1,232	4,874	3,075	5,170	4,260	628

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Simcoe	Springfield	Stamford Twp.	Stouffville	Stratford
Population.....	4,675	393	6,790	1,053	18,671
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	15,546.85	1,617.62	51,366.64	6,075.07	141,864.86
Commercial light service.....	20,486.28	819.46	7,920.05	2,725.49	48,151.46
Commercial power service.....	18,600.51	3,320.70	3,851.46	1,283.84	53,749.33
Municipal power.....	1,792.27		2,027.13		9,158.07
Street lighting.....	3,094.67	550.00	7,009.56	1,694.00	15,907.55
Merchandise.....	468.55				56.08
Miscellaneous.....		188.86	884.57	337.95	9,183.47
Total earnings.....	60,799.13	6,496.64	73,059.41	12,116.35	278,070.82
EXPENSES					
Power purchased.....	36,192.76	4,001.67	31,950.41	6,141.20	201,918.49
Substation operation.....			372.92		4,603.10
Substation maintenance.....	219.37				1,266.83
Distribution system, operation and maintenance.....	3,742.79	44.63	3,937.36	789.83	6,410.58
Line transformer maintenance.....	185.58		45.50		456.79
Meter maintenance.....	775.91		278.32		2,085.99
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	674.68	49.33	1,119.51	148.48	2,556.26
Promotion of business.....			1,346.38		
Billing and collecting.....	1,494.85	309.28	3,530.35		4,994.94
General office, salaries and expenses.....	1,366.93	115.63	4,293.96	486.78	8,243.03
Undistributed expenses.....	1,004.47	28.63	1,103.84		4,057.32
Truck operation and maintenance.....	465.07		1,654.76		1,715.62
Interest.....	3,334.37	263.46	8,137.34	672.24	21,775.00
Sinking fund and principal payments on debentures.....	2,200.58	143.73	7,558.68	1,288.34	10,022.36
Total expenses.....	51,657.36	4,956.36	65,329.33	9,526.87	270,106.31
Gross surplus.....	9,141.77	1,540.28	7,730.08	2,589.48	7,964.51
Gross loss.....					
Depreciation.....	2,709.00	291.00	5,168.00	461.00	10,136.00
Net surplus.....	6,432.77	1,249.28	2,562.08	2,128.48	
Net loss.....					2,171.49
NUMBER OF CONSUMERS					
Domestic service.....	903	92	1,550	301	4,296
Commercial light service.....	280	34	100	82	627
Power service.....	38	4	12	5	141
Total.....	1,221	130	1,662	388	5,064

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Strathroy 2,737	Sutton 833	Tavistock 965	Tecumseh 2,260	Thames- ford P.V.	Thames- ville 886	Thedford 535	Thorndale P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,735.50	6,810.04	6,679.85	15,159.54	2,263.52	4,461.28	2,643.90	1,370.46
10,054.50	2,999.25	2,131.78	3,747.23	1,412.84	3,532.94	1,463.88	1,071.09
8,556.75	1,472.12	7,888.63	3,574.53	3,134.71	1,862.74	720.71	718.06
1,427.53		465.79					
3,819.96	1,823.50	1,180.30	1,089.00	517.00	1,059.00	1,035.00	372.00
909.67							
1,209.72		175.89		302.05	275.74	256.00	
44,713.63	13,104.91	18,522.24	23,570.30	7,630.12	11,191.70	6,119.49	3,531.61
27,960.55	8,253.24	14,972.33	12,053.49	5,171.75	7,222.74	3,625.58	2,902.91
216.10							
245.21							
806.33	916.59	565.08	2,132.08	178.84	696.51	225.17	97.76
91.60		14.10	130.64	27.05			
259.99		53.22	1,326.55				
			313.83				
476.26	175.46	39.77	330.99	73.13	139.80	37.86	37.87
898.11		310.83	1,519.15	209.50	291.29	34.30	71.51
2,189.20	593.46	228.00	403.43	39.61	372.07	213.77	1.98
858.11		96.44	654.94	26.88	58.75		15.11
224.19							
1,158.88	1,151.09	220.03	1,535.23	125.66	344.31	724.42	83.89
1,720.55	146.79	170.29	1,088.57	176.23	487.69	714.92	74.50
37,105.08	11,236.63	16,670.09	21,488.90	6,028.65	9,613.16	5,576.02	3,285.53
7,608.55	1,868.28	1,852.15	2,081.40	1,601.47	1,578.54	543.47	246.08
2,823.00	705.00	680.00	1,351.00	388.00	634.00	303.00	202.00
4,785.55	1,163.28	1,172.15	730.40	1,213.47	944.54	240.47	44.08
786	363	252	483	117	212	128	68
179	73	73	53	36	82	41	28
26	5	5	3	8	7	2	1
991	441	330	539	161	301	171	97

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Thorold	Tilbury	Tillson- burg	Toronto	Toronto Twp.
Population.....	5,037	1,886	3,166	585,628	8,047
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	20,101.69	6,313.64	13,795.78	3,408,578.98	50,586.57
Commercial light service.....	6,368.17	6,289.01	11,772.71	2,968,306.66	14,080.39
Commercial power service.....	28,178.20	10,741.43	10,123.94	3,441,355.27	4,847.96
Municipal power.....	3,153.41	360.76	1,007.71	1,593,703.76	.....
Street lighting.....	3,393.50	1,549.62	2,560.48	507,020.12	4,641.89
Merchandise.....	.....	.....	248.41	.....	.....
Miscellaneous.....	171.21	507.39	1,533.94	332,696.06	413.96
Total earnings.....	61,366.18	25,761.85	41,042.97	12,251,660.85	74,570.77
EXPENSES					
Power purchased.....	42,447.19	17,101.25	23,746.60	6,115,392.91	37,777.13
Substation operation.....	.....	.....	1,075.75	249,364.82	.....
Substation maintenance.....	2,409.56	.....	.....	242,853.64	.....
Distribution system, operation and maintenance.....	3,493.73	1,825.64	2,984.94	412,026.81	2,357.47
Line transformer maintenance.....	11.48	67.96	78.45	49,412.04	36.08
Meter maintenance.....	268.28	18.68	25.32	114,151.76	1,255.69
Consumers premises expenses.....	.....	.....	.....	274,538.25	.....
Street lighting, operation and main- tenance.....	351.87	109.34	279.30	144,783.37	831.82
Promotion of business.....	.....	.....	.....	198,708.97	.....
Billing and collecting.....	776.33	331.86	818.41	338,800.13	3,006.22
General office, salaries and expenses.	733.97	383.30	3,763.36	326,848.25	4,146.73
Undistributed expenses.....	432.41	215.76	1,401.49	206,385.59	1,761.67
Truck operation and maintenance...	367.38	.....	400.88	.....	1,400.07
Interest.....	108.95	778.81	799.02	1,340,131.91	3,418.48
Sinking fund and principal payments on debentures.....	570.39	296.91	1,341.75	1,035,329.87	3,640.53
Total expenses.....	51,971.54	21,129.51	36,715.27	11,048,728.32	59,631.89
Gross surplus.....	9,394.64	4,632.34	4,327.70	1,202,932.53	14,938.88
Gross loss.....	.....	.....	.....	.....	.....
Depreciation.....	2,552.00	953.00	2,723.00	708,187.08	6,913.00
Net surplus.....	6,842.64	3,679.34	1,604.70	494,745.45	8,025.88
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domes ic service.....	1,166	414	832	147,706	1,667
Commercial light service.....	180	134	206	26,546	147
Power service.....	14	16	30	5,251	19
Total.....	1,360	564	1,068	*179,503	1,833

*This includes York Twp.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Trafalgar Twp. Zone No. 1 3,732	Trafalgar Twp., Zone No. 2	Walker- ville 10,671	Wallace- burg 4,360	Wards- ville 214	Water- down 874	Waterford 1,097	Waterloo 7,782
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,047.09	4,293.08	107,115.09	17,359.71	990.23	5,229.77	7,050.32	54,979.67
573.25	454.45	34,795.69	9,663.97	1,187.44	838.64	1,888.41	21,987.94
1,006.29		177,559.60	47,736.54		1,980.80	4,031.12	28,005.80
			1,638.59		233.47	282.20	3,439.47
		14,893.57	2,975.00	700.00	930.00	1,608.00	7,227.14
						2.68	831.08
28.49	76.94	15,827.51	2,009.47	59.25	178.43	364.48	73.19
14,655.12	4,824.47	350,191.46	81,383.28	2,936.92	9,391.11	15,227.21	116,544.29
6,830.00	2,296.00	227,776.98	58,415.96	1,708.78	6,435.17	11,838.87	77,058.43
		6,264.79	172.35				2,503.51
		2,009.94					671.47
2,538.86	298.53	5,368.20	2,758.01	83.91	360.00	350.40	4,367.66
		1,320.15	57.65				97.00
187.33	10.65	3,272.66	333.02		147.10	3.73	599.34
		3,874.76					
		2,835.05	366.14	79.70	92.81	157.08	1,333.74
		2,452.80	128.99				
		10,304.00	2,284.04		607.51	475.00	2,414.46
1,383.10	655.28	15,125.66	2,531.86	181.62	292.05	573.87	5,417.34
158.09	83.51	10,169.83	2,601.52		46.77	29.35	890.02
361.34		1,926.62	966.68				1,283.43
902.83	550.00	12,108.39	3,155.12	337.66	82.12		3,634.60
790.89		13,015.24	2,322.52	346.61	450.68		4,219.05
13,152.44	3,893.97	317,825.07	76,093.86	2,738.28	8,514.21	13,428.30	104,490.05
1,502.68	930.50	32,366.39	5,289.42	198.64	876.90	1,798.91	12,054.24
952.00	211.00	15,494.00	4,166.00	200.00	713.00	850.00	7,559.00
550.68	719.50	16,872.39	1,123.42		163.90	948.91	4,495.24
				1.36			
250		2,581	989	51	214	309	1,792
2		354	204	26	27	71	233
11		102	24		6	11	73
†263		3,037	1,217	77	247	391	2,098

†Includes Zone No. 2.

STATEMENT

Detailed Operating Reports of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Watford	Welland	Wellesley	West Lorne	Weston
Population.....	1,045	10,054	P.V.	777	4,425
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,116.52	52,347.87	2,668.92	3,475.85	35,306.90
Commercial light service.....	3,321.00	31,576.59	837.36	1,853.39	8,966.48
Commercial power service.....	2,230.43	59,664.36	2,371.72	7,647.25	49,027.92
Municipal power.....	316.89	4,034.59			1,559.71
Street lighting.....	1,325.07	11,209.04	720.00	1,010.04	7,549.75
Merchandise.....		761.29			
Miscellaneous.....	159.94	8,165.53	14.94	59.80	451.33
Total earnings.....	13,469.85	167,759.27	6,612.94	14,046.33	102,862.09
EXPENSES					
Power purchased.....	8,419.22	83,452.12	4,806.19	11,330.88	74,946.37
Substation operation.....		5,138.01			146.00
Substation maintenance.....		190.52			402.98
Distribution system, operation and maintenance.....	788.90	7,632.31	40.69	79.49	2,673.33
Line transformer maintenance.....		436.34			77.90
Meter maintenance.....	217.80	3,356.38			665.76
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	87.59	1,408.19	114.19	97.10	1,767.99
Promotion of business.....	6.57				
Billing and collecting.....	503.54	4,171.02		840.84	
General office, salaries and expenses.....	425.33	7,522.91	407.62	94.06	4,392.22
Undistributed expenses.....	56.67	2,293.11	56.51	77.31	768.97
Truck operation and maintenance.....	150.96	2,043.04			700.05
Interest.....	229.91	13,869.52	219.68	422.50	2,798.76
Sinking fund and principal payments on debentures.....	606.88	8,450.01	434.87	215.84	2,577.73
Total expenses.....	11,493.37	139,963.48	6,079.75	13,158.02	91,918.06
Gross surplus.....	1,976.48	27,795.79	533.19	888.31	10,944.03
Gross loss.....					
Depreciation.....	641.00	10,486.53	267.00	566.00	4,377.00
Net surplus.....	1,335.48	17,309.26	266.19	322.31	6,567.03
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	272	2,212	120	191	1,149
Commercial light service.....	81	427	34	54	180
Power service.....	5	81	4	5	27
Total.....	358	2,720	158	250	1,356

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Wheatley 698	Windsor 68,569	Wood- bridge 727	Wood- stock 10,687	Wyoming 472	York Twp.* 55,187	E. York Twp. 27,408	N. York Twp. 10,332
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,339.02	531,544.87	5,219.93	78,764.88	2,224.35	396,807.16	146,962.27	74,114.72
2,751.71	274,997.73	1,541.30	39,725.09	1,386.73	45,961.46	16,778.12	11,492.35
1,318.56	219,890.40	3,670.64	51,665.95	102.20	92,413.21	43,776.25	13,170.11
268.64	20,073.26	360.22	3,369.93			3,745.08	3,132.21
1,830.42	85,266.83	810.00	7,171.44	750.00	55,866.11	18,328.94	4,043.30
		175.17	2,427.40	14.03	15,590.54	577.05	2,753.87
10,508.35	1,131,773.09	11,777.26	183,124.69	4,477.31	606,638.48	230,167.71	108,706.56
5,844.42	658,247.05	8,459.12	121,232.73	2,875.16	226,436.19	128,421.43	49,841.20
	16,682.98		2,513.25		19,213.61		
	10,422.19		339.61				126.16
388.26	27,166.19	244.21	4,567.59	187.87	13,520.16	8,456.23	9,190.13
	5,021.17				4,038.33	1,601.69	589.83
11.85	9,168.52	384.13	1,670.30		7,959.51	2,808.54	1,504.34
	16,050.97				19,124.49	881.00	
237.37	29,643.24	129.62	2,671.34	36.73	8,351.94	1,923.04	1,615.09
	7,750.03		38.99		4,226.24	78.00	21.94
307.70	35,398.30		3,394.63	130.44	30,220.53	11,471.00	4,727.34
73.38	21,483.85	633.27	4,408.57	196.42	23,766.00	10,224.73	4,195.36
37.12	29,775.95		3,658.36		22,393.77	3,779.98	2,697.78
	10,219.64		991.93			3,879.93	3,632.09
567.67	73,864.74	566.90	2,352.45	266.66	127,882.62	15,484.01	14,440.00
514.08	77,582.99	248.32	2,535.31	628.60	18,616.91	12,278.92	8,930.14
7,981.85	1,028,477.81	10,665.57	150,375.06	4,321.88	525,750.30	201,288.50	101,511.40
2,526.50	103,295.28	1,111.69	32,749.63	155.43	80,888.18	28,879.21	7,195.16
493.00	58,200.00	713.00	10,247.00	330.00	16,145.00	10,291.00	8,302.00
2,033.50	45,095.28	398.69	22,502.63		64,743.18	18,588.21	
				174.57			1,106.84
184	14,787	232	2,787	120		8,124	2,216
62	2,398	47	454	47		360	190
4	363	7	91	1		35	30
250	17,548	286	3,332	168		8,519	2,436

*For year ending December 31, 1929. Included in Toronto figures. Not added in summary.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality.....	Zurich	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population.....	P.V.		1,342	952	7,311
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,015.06	8,649,883.83	8,934.35	4,109.62	41,410.23
Commercial light service.....	1,987.73	4,980,498.39	4,830.33	3,610.75	23,358.23
Commercial power service.....		7,395,319.29	2,464.33	1,550.34	12,001.51
Municipal power.....		1,942,420.06	632.38		912.91
Street lighting.....	693.00	1,337,604.96	2,051.98	1,765.02	5,123.00
Merchandise.....		18,667.07			
Miscellaneous.....	127.90	506,775.11	265.95	15.34	979.17
Total earnings.....	5,823.69	24,831,168.71	19,179.32	11,051.07	83,785.05
EXPENSES					
Power purchased.....	5,012.15	14,120,032.41	10,426.16	7,633.82	62,717.60
Substation operation.....		402,517.94			
Substation maintenance.....		301,516.37			194.78
Distribution system, operation and maintenance.....	130.93	798,332.92	1,417.26	525.73	4,328.27
Line transformer maintenance.....		87,710.73			86.58
Meter maintenance.....		226,640.57			602.00
Consumers' premises expenses.....		313,804.44			
Street lighting, operation and main- tenance.....	71.03	298,092.13	193.42	101.26	1,696.33
Promotion of business.....		234,916.78			
Billing and collecting.....		632,961.62			1,826.16
General office, salaries and expenses	220.82	731,533.39	896.66	432.25	1,777.60
Undistributed expenses.....		415,589.01			1,075.64
Truck operation and maintenance.....		87,059.51			754.57
Interest.....	242.25	1,979,227.03	1,991.77	1,192.73	919.51
Sinking fund and principal payments on debentures.....	148.75	1,643,661.24	1,156.20	606.98	1,459.52
Total expenses.....	5,825.93	22,273,596.09	16,081.47	10,492.77	77,438.56
Gross surplus.....		2,557,572.62	3,097.85	558.30	6,346.49
Gross loss.....	2.24				
Depreciation.....	339.00	1,342,130.60	1,185.00	347.00	5,960.00
Net surplus.....		1,215,442.02	1,912.85	211.30	386.49
Net loss.....	341.24				
NUMBER OF CONSUMERS					
Domestic service.....	118	348,964	344	170	1,824
Commercial light service.....	49	56,371	108	86	336
Power service.....		10,403	14	4	35
Total.....	167	415,738	466	260	2,195

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Beaverton	Beeton	Bradford	Brechin	Cannington	Chatsworth	Chesley	Coldwater
970	560	884	P.V.	878	257	1,772	615
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,534.99	3,601.08	4,943.67	963.33	4,684.07	1,230.50	7,895.91	2,562.80
2,453.43	2,530.27	3,274.98	994.69	2,183.76	1,428.43	3,936.88	1,528.98
2,415.27	3,599.98	4,177.57	907.72	770.52	420.48	9,176.01	5,258.57
		42.98				859.46	
1,012.34	1,326.00	1,206.00	450.00	954.00	451.00	1,594.84	571.00
	11.43			57.25			
235.42	24.99	185.51	150.00	256.45	63.83	751.36	334.42
13,651.45	11,093.75	13,830.71	3,465.74	8,906.05	3,594.24	24,214.46	10,255.77
8,516.73	7,435.84	8,680.51	2,650.86	5,519.45	1,996.80	17,575.32	8,116.83
1,105.48	97.09	405.63	338.95	698.69	95.82	862.56	500.86
11.70							
179.75	74.16	110.48	82.69	36.38		154.57	81.27
639.56	431.89	817.82	114.53	535.80	330.48	381.15	408.12
513.21	658.65	1,310.80	227.27	606.32	295.18	93.15	194.05
528.55	386.15	699.74	84.00	515.90	203.16	697.40	287.61
11,494.98	9,083.78	12,024.98	3,498.30	7,912.54	2,921.44	22,071.30	9,588.74
2,156.47	2,009.97	1,805.73		993.51	672.80	2,143.16	667.03
			32.56				
1,070.00	515.00	745.00	123.00	567.00	223.00	1,070.00	216.00
1,086.47	1,494.97	1,060.73		426.51	449.80	1,073.16	451.03
			155.56				
380	121	195	39	234	58	413	129
58	35	62	26	66	32	102	57
10	6	8	4	11	1	20	
448	162	265	69	311	91	535	186

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Colling- wood 6,126	Cooks- town P.V.	Creemore 610	Dundalk 594	Durham 1,722
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	25,300.98	2,107.44	2,293.11	2,510.21	5,415.39
Commercial light service.....	10,857.35	1,452.24	1,753.75	2,208.63	4,033.69
Commercial power service.....	26,680.36	330.44	1,338.05	2,148.21	11,075.48
Municipal power.....	1,329.36				
Street lighting.....	3,354.66	952.00	590.00	780.00	1,759.60
Merchandise.....					
Miscellaneous.....	2,296.35	42.13	232.64	249.89	1,024.97
Total earnings.....	69,819.06	4,884.25	6,207.55	7,896.94	23,309.13
EXPENSES					
Power purchased.....	62,183.90	2,581.71	5,253.81	5,405.42	15,815.48
Substation operation.....	39.00				
Substation maintenance.....	531.92				
Distribution system, operation and maintenance.....	1,589.06	66.23	220.85	1,039.31	1,071.11
Line transformer maintenance.....	24.87				
Meter maintenance.....	714.63				
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	237.18	23.36	61.29	155.90	84.32
Promotion of business.....					
Billing and collecting.....	2,844.38				
General office, salaries and expenses.....	2,991.64	437.12	259.22	594.67	1,992.42
Undistributed expenses.....	702.07				308.60
Truck operation and maintenance.....	222.03				239.08
Interest.....	350.04	578.47	147.03	129.62	596.99
Sinking fund and principal payments on debentures.....	2,274.84	692.47	423.47	303.48	2,032.09
Total expenses.....	74,705.56	4,379.36	6,365.67	7,628.40	22,140.09
Gross surplus.....		504.89		268.54	1,169.04
Gross loss.....	4,886.50		158.12		
Depreciation.....	1,361.00	437.00	342.00	379.00	1,010.00
Net surplus.....		67.89			159.04
Net loss.....	6,247.50		500.12	110.46	
NUMBER OF CONSUMERS					
Domestic service.....	1,384	96	152	160	387
Commercial light service.....	260	36	55	72	99
Power service.....	56	3	5	3	10
Total.....	1,700	135	212	235	496

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Elmvale P.V.	Elmwood P.V.	Flesherton 454	Grand Valley 583	Graven- hurst 1,776	Hanover 2,626	Holstein P.V.	Huntsville 2,608
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,446.83	1,002.07	2,458.16	2,842.89	7,952.73	18,205.31	1,148.10	10,269.10
1,654.62	514.80	1,739.56	2,120.89	5,432.12	6,235.60	595.67	6,777.95
3,601.13	1,302.12	366.39	1,707.70	7,166.94	19,486.96	307.72	14,069.01
137.76				678.51	216.95		1,126.67
652.64	483.00	545.00	832.00	2,172.00	3,472.41	490.00	2,396.00
							710.96
115.40	51.98	43.75	312.26	785.77	1,680.45		347.80
8,608.38	3,353.97	5,152.86	7,815.74	24,188.07	49,297.68	2,541.49	35,697.49
6,053.48	2,125.45	3,158.80	5,335.48	11,258.35	34,523.61	1,519.79	23,350.56
994.66	38.42	255.87	255.99	2,307.34	2,831.92	44.20	3,820.66
					200.14		
					189.46		
40.39	13.06	21.84	56.18	270.70	213.80	22.44	69.05
265.00	176.31	423.73	624.06	1,898.05	1,144.94		
					362.65	165.34	1,667.16
					798.08		
213.87	252.83	431.46	323.51	997.04	131.24		
241.49	381.28	227.21	637.81	2,912.23	3,306.21	207.85	400.37
7,808.89	2,987.35	4,518.91	7,233.03	19,643.71	4,348.45	182.07	1,549.86
					48,050.50	2,141.69	30,857.66
799.49	366.62	633.95	582.71	4,544.36	1,247.18	399.80	4,839.83
198.00	213.00	279.40	465.00	1,399.00	2,910.00	100.00	928.00
601.49	153.62	354.55	117.71	3,145.36		299.80	3,911.83
					1,662.82		
134	55	126	135	408	690	50	569
55	20	45	50	89	111	17	95
10	1	2	2	10	19	1	10
199	76	173	187	507	820	68	674

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population.....	2,352	P.V.	1,147	798	2,729
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	14,053.52	803.38	6,507.52	3,164.88	11,304.03
Commercial light service.....	6,927.47	876.77	3,252.83	2,500.44	6,041.26
Commercial power service.....	7,771.97	285.48	4,049.51	910.58	4,422.74
Municipal power.....	1,559.07			81.00	777.30
Street lighting.....	3,729.60	460.00	1,656.25	672.00	3,166.90
Merchandise.....	264.61				
Miscellaneous.....	217.18		163.03	189.68	847.73
Total earnings.....	34,523.42	2,425.63	15,629.14	7,518.58	26,559.96
EXPENSES					
Power purchased.....	21,182.67	1,530.01	11,459.98	4,756.54	14,199.27
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,818.95	157.55	274.69	161.09	1,295.83
Line transformer maintenance.....					50.75
Meter maintenance.....					212.55
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	206.27	48.26	22.44	31.51	234.76
Promotion of business.....					
Billing and collecting.....	914.38				823.99
General office, salaries and expenses.....	1,080.03	25.78	906.00	579.21	1,986.74
Undistributed expenses.....					191.93
Truck operation and maintenance.....	190.07				171.60
Interest.....	2,493.53	300.34	867.07	396.50	2,237.55
Sinking fund and principal payments on debentures.....	2,671.48	275.55	814.42	257.34	2,570.38
Total expenses.....	30,557.38	2,337.49	14,344.60	6,182.19	23,975.35
Gross surplus.....	3,966.04	88.14	1,284.54	1,336.39	2,584.61
Gross loss.....					
Depreciation.....	1,741.00	185.00	630.00	542.00	1,201.00
Net surplus.....	2,225.04		654.54	794.39	1,383.61
Net loss.....		96.86			
NUMBER OF CONSUMERS					
Domestic service.....	542	26	256	187	628
Commercial light service.....	117	19	84	80	131
Power service.....	19	1	3	9	16
Total.....	678	46	343	276	775

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Midland 7,826	Mount Forest 1,823	Neustadt 431	Orangeville 2,721	Owen Sound 12,304	Paisley 700	Penetang- uishene 3,615	Port McNicoll 831
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
34,006.94	6,918.18	2,198.11	12,265.53	54,009.53	3,603.90	9,038.18	2,848.72
13,606.04	5,373.71	1,321.60	9,307.20	33,237.98	2,585.66	3,826.82	544.20
72,377.44	4,314.44	95.65	7,160.66	37,354.27	1,269.65	10,113.11	71.28
3,002.76	1,297.95		1,511.59			1,748.75	
6,113.34	2,358.00	975.00	3,977.24	10,917.25	1,408.00	1,880.00	506.00
				375.62			
1,306.82	594.68		79.72	834.48	141.53	333.48	3.87
130,413.34	20,856.96	4,590.36	34,301.94	136,729.13	9,008.74	26,940.34	3,974.07
92,665.23	13,168.15	3,213.30	19,747.84	95,784.90	6,690.51	19,316.16	2,846.03
1,980.00				2,932.40		965.51	
531.84						18.65	
4,142.26	1,782.18	59.85	1,879.91	5,150.56	240.00	2,193.65	146.49
451.04				388.14		198.08	
1,745.90				2,064.27		34.66	
			35.27				
578.50	269.98	29.86	312.28	2,902.33	123.77	155.22	24.74
228.62							
2,399.40			975.68	3,577.67		924.76	
2,125.97	1,173.51	335.13	200.02	6,473.32	502.05	518.56	407.35
2,141.19				3,008.51		321.77	
398.63				1,405.74		155.13	
2,849.46	817.35	940.14	996.40	1,264.80	718.22	1,179.77	241.27
5,277.69	1,183.42	844.55	2,033.75	671.74	632.71	1,715.54	405.33
117,515.73	18,394.59	5,422.83	26,181.15	125,624.38	8,907.26	27,697.46	4,071.21
12,897.61	2,462.37		8,120.79	11,104.75	101.48		
		832.47				757.12	97.14
8,383.00	1,170.00	528.00	1,596.00	6,206.00	424.00	944.00	341.00
4,514.61	1,292.37		6,524.79	4,898.75			
		1,360.47			322.52	1,701.12	438.14
1,550	422	94	631	3,014	173	545	161
249	196	27	157	567	61	100	22
62	12	2	27	122	4	26	1
1,861	630	123	815	3,703	238	671	184

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Port Perry 1,185	Priceville P.V.	Ripley 423	Shelburne 1,135	Stayner 968
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,903.89	596.42	2,771.35	5,633.22	3,788.69
Commercial light service.....	1,699.60	323.71	2,194.46	3,654.14	2,527.82
Commercial power service.....	4,279.96			1,078.32	2,741.96
Municipal power.....	445.32			523.61	
Street lighting.....	1,397.17	560.00	1,349.00	1,049.56	1,117.00
Merchandise.....					
Miscellaneous.....	496.57		83.36	283.63	377.23
Total earnings.....	15,222.51	1,480.13	6,398.17	12,222.48	10,552.70
EXPENSES					
Power purchased.....	8,746.88	1,072.02	4,190.89	7,672.05	6,029.02
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	804.18	1.50	78.58	513.30	790.03
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	196.80	14.23	26.20	48.67	23.40
Promotion of business.....					
Billing and collecting.....				538.79	
General office, salaries and expenses.....	834.98	48.24	424.70	76.38	509.04
Undistributed expenses.....					
Truck operation and maintenance.....	347.92				
Interest.....	1,063.26	393.07	709.40	488.03	315.60
Sinking fund and principal payments on debentures.....	627.62	396.49	320.55	1,138.38	911.43
Total expenses.....	12,621.64	1,925.55	5,750.32	10,475.60	8,578.52
Gross surplus.....	2,600.87		647.85	1,746.88	1,974.18
Gross loss.....		445.42			
Depreciation.....	743.00	154.00	362.00	800.00	682.00
Net surplus.....	1,857.87		285.85	946.88	1,292.18
Net loss.....		599.42			
NUMBER OF CONSUMERS					
Domestic service.....	276	30	108	287	221
Commercial light service.....	72	9	46	91	74
Power service.....	13			9	11
Total.....	361	39	154	387	306

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Sunderland P.V.	Tara 441	Teeswater 817	Thornton P.V.	Tottenham 545	Uxbridge 1,425	Victoria Harbor 1,104	Waubau- shene P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,974.68	2,955.63	4,637.86	1,246.97	2,917.70	7,385.94	2,531.03	1,933.71
1,713.52	1,777.69	2,632.34	666.18	2,419.66	3,506.17	942.92	529.47
93.47	1,221.47	1,073.57	332.56	1,112.85	1,278.03	45.25	197.79
594.00	1,675.00	1,700.00	840.00	201.37	1,541.00	107.18	86.57
42.25		177.27	6.71	1,225.08		702.00	328.00
					436.17	8.66	4.07
4,417.92	7,629.79	10,221.04	3,092.42	7,876.66	14,147.31	4,337.04	3,079.61
2,877.83	3,479.43	5,307.19	1,737.75	5,372.01	9,077.35	2,826.05	1,617.33
199.82	301.36	223.75	47.45	465.27	573.12	255.87	202.50
64.40	39.07	45.51	13.31	4.95	158.15	126.18	24.48
313.32	424.12	631.86	105.59	199.52	943.32	366.01	372.90
239.70	565.88	1,063.28	485.89	528.93	926.17	149.45	90.03
270.15	802.91	937.79	356.80	329.07	817.51	394.48	215.12
3,965.22	5,612.77	8,209.38	2,746.79	6,899.75	12,495.62	4,118.04	2,522.36
452.70	2,017.02	2,011.66	345.63	976.91	1,651.69	219.00	557.25
236.00	464.00	565.00	272.00	359.00	578.00	362.00	228.00
216.70	1,553.02	1,446.66	73.63	617.91	1,073.69		329.25
						143.00	
103	118	206	51	118	320	155	118
39	41	60	18	52	99	27	18
2	5	7	2	6	13	2	4
144	164	273	71	176	432	184	140

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded

EASTERN SYSTEM

Municipality.....	Winder- mere* 123	Wingham	Woodville	GEORGIAN BAY SYSTEM SUMMARY	Alexandria
Population.....		2,362	405		2,300
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	826.01	13,012.04	1,950.65	393,611.08	7,521.20
Commercial light service.....	447.40	7,839.83	1,082.02	218,866.51	4,350.80
Commercial power service.....		11,521.11	1,051.68	308,547.61	4,562.42
Municipal power.....		325.80		17,605.25	1,780.18
Street lighting.....	189.50	3,597.00	482.00	91,150.38	2,623.00
Merchandise.....		428.25		1,848.12	
Miscellaneous.....	1,250.00	868.73	279.91	19,472.59	199.46
Total earnings.....	2,712.91	37,592.76	4,846.26	1,051,101.54	21,037.06
EXPENSES					
Power purchased.....	1,274.83	19,298.58	2,641.78	709,617.34	13,369.21
Substation operation.....		2,226.98		8,143.89	
Substation maintenance.....				1,277.19	
Distribution system, operation and maintenance.....	35.55	2,478.14	307.56	51,492.95	1,895.10
Line transformer maintenance.....				1,411.30	
Meter maintenance.....				5,563.47	
Consumers' premises expenses.....				35.27	
Street lighting, operation and main- tenance.....		205.93	24.69	9,935.71	328.47
Promotion of business.....				228.62	
Billing and collecting.....		673.11		17,024.41	
General office, salaries and expenses.....	113.17	766.91	292.52	41,645.81	1,606.71
Undistributed expenses.....		487.95		9,035.74	
Truck operation and maintenance.....		166.09		4,275.25	
Interest.....	299.26	2,955.78	211.88	42,330.19	1,769.12
Sinking fund and principal payments on debentures.....		3,369.60	196.31	54,212.34	2,348.59
Total expenses.....	1,722.81	32,629.07	3,674.74	956,229.48	21,317.20
Gross surplus.....	990.10	4,963.69	1,171.52	94,872.06	
Gross loss.....					280.14
Depreciation.....	104.00	2,416.00	194.00	54,452.40	1,164.00
Net surplus.....	886.10	2,547.69	977.52	40,419.66	
Net loss.....					1,444.14
NUMBER OF CONSUMERS					
Domestic service.....	43	553	100	19,289	310
Commercial light service.....	7	161	30	4,626	98
Power service.....		25	3	651	13
Total.....	50	739	133	24,566	421

*5 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

ONTARIO

Apple Hill P.V.	Athens 602	Belleville 13,267	Bloomfield 540	Brighton* 1,311	Brockville 9,191	Cardinal* 1,284	Carleton Place 4,293
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
983.37	4,359.11	81,518.07	2,970.96	12,179.25	36,776.61	1,762.98	18,611.03
723.72	2,334.98	57,241.65	988.56	6,638.60	23,669.57	694.16	9,247.04
318.62	122.26	40,588.41	2,470.44	4,587.42	36,535.87	239.77	19,665.06
.....	.....	9,681.98	.....	.....	6,748.60	.....	2,215.37
458.40	1,846.00	9,877.19	826.00	2,226.15	8,781.00	506.67	3,411.13
.....	.....	882.65	.....	201.90	.....	.....	.....
.....	.....	3,672.85	117.26	.....	6,544.72	.....	1,218.77
2,484.11	8,662.35	203,462.80	7,373.22	25,833.32	119,056.37	3,203.58	54,368.40
1,529.57	4,138.23	105,851.38	4,838.35	10,193.04	63,698.08	1,702.99	29,487.17
.....	.....	.....	.....	.....	5,394.16	.....	.....
.....	.....	.....	.....	.....	409.09	.....	32.77
49.04	307.61	3,594.43	134.19	2,616.43	3,546.38	95.80	2,416.78
.....	.....	434.36	.....	59.44	157.22	.....	92.99
.....	.....	803.58	.....	177.81	2,146.13	137.85	251.44
.....	.....	645.96	.....	88.86	.....	.....	.....
55.42	111.15	1,328.03	65.90	220.81	1,290.53	131.18	404.67
.....	.....	.....	.....	.....	75.90	.....	.....
.....	.....	3,090.78	.....	777.54	1,122.73	.....	1,455.08
315.38	301.21	7,799.48	332.76	3,129.90	5,816.08	336.69	3,176.78
.....	.....	2,017.19	.....	1,503.18	2,197.40	.....	434.31
.....	.....	1,282.78	.....	.....	790.22	.....	831.91
278.11	1,004.80	6,596.43	450.33	1,583.59	5,879.55	500.00	2,812.69
255.20	423.60	6,000.00	339.06	646.66	8,614.00	.....	2,023.22
2,482.72	6,286.60	139,444.40	6,160.59	20,997.26	101,137.47	2,904.51	43,419.81
1.39	2,375.75	64,018.40	1,212.63	4,836.06	17,918.90	299.07	10,948.59
140.00	368.00	3,840.00	390.00	608.00	6,569.00	100.00	1,684.00
.....	2,007.75	60,178.40	822.63	4,228.06	11,349.90	199.07	9,264.59
138.61	.....	.....	.....	.....	.....	.....	.....
38	125	3,028	149	406	2,406	245	908
17	42	507	24	104	425	35	182
1	1	93	10	10	71	2	20
56	168	3,628	183	520	2,902	282	1,110

*5 months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality.....	Chester- ville 965	Finch 377	Havelock 1,421	Kempt- ville 1,298	Kingston 21,616
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,805.86	2,111.18	6,631.08	6,382.04	98,839.73
Commercial light service.....	2,239.60	1,729.66	1,888.80	3,921.06	71,238.20
Commercial power service.....	3,200.30	912.48	5,891.94	4,400.85	68,790.04
Municipal power.....					8,017.20
Street lighting.....	1,032.00	620.00	1,620.00	1,830.00	20,000.00
Merchandise.....	373.04			551.83	
Miscellaneous.....	448.91		236.66	957.70	3,200.53
Total earnings.....	12,099.71	5,373.32	16,268.48	18,043.48	270,085.70
EXPENSES					
Power purchased.....	8,982.77	2,815.84	10,536.75	8,387.43	105,665.49
Substation operation.....					4,723.85
Substation maintenance.....					10,121.04
Distribution system, operation and maintenance.....	910.30	141.40	979.27	1,835.05	17,643.14
Line transformer maintenance.....					1,407.13
Meter maintenance.....					4,577.52
Consumers' premises expenses.....					2,038.00
Street lighting, operation and main- tenance.....	108.10	58.99	77.40	195.00	6,239.91
Promotion of business.....					187.35
Billing and collecting.....					6,799.09
General office, salaries and expenses.....	708.01	230.44	391.34	1,048.23	9,780.06
Undistributed expenses.....					13,819.11
Truck operation and maintenance.....			146.33	278.77	3,637.33
Interest.....	185.42	431.96	1,377.56	1,313.58	11,402.59
Sinking fund and principal payments on debentures.....	162.52	213.81	1,490.81	534.25	11,010.45
Total expenses.....	11,057.12	3,892.44	14,999.46	13,592.31	209,052.06
Gross surplus.....	1,042.59	1,480.88	1,269.02	4,451.17	61,033.64
Gross loss.....					
Depreciation.....	525.00	215.00	748.00	763.00	17,123.00
Net surplus.....	517.59	1,265.88	521.02	3,688.17	43,910.64
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	212	70	279	297	5,374
Commercial light service.....	57	34	57	82	863
Power service.....	3	1	3	7	140
Total.....	272	105	339	386	6,377

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Lakefield	Lanark	Lancaster	Lindsay	Madoc	Marmora	Martin- town P.V.	Maxville
1,423	581	560	7,056	1,067	1,023		746
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,387.28	2,427.34	2,017.16	40,094.36	4,182.21	3,458.11	858.60	3,217.89
4,774.91	1,239.79	2,284.94	23,776.28	2,968.35	1,674.09	869.79	2,076.38
2,759.85	120.69	1,408.74	27,171.64	1,014.31	117.02		308.59
			3,032.52				
1,872.00	629.00	1,495.00	8,052.50	1,494.00	1,566.00	300.00	1,792.06
			286.70				
852.79	120.03		2,000.00	32.30	183.29	82.83	
16,646.83	4,536.85	7,205.84	104,414.00	9,691.17	6,998.51	2,111.22	7,394.92
7,474.43	2,516.24	4,336.92	58,070.94	7,482.15	3,731.37	1,209.30	3,707.86
1,654.36	55.40	52.80	4,322.23	420.23	111.68	67.45	249.15
			169.97				
			994.33	57.74			
			484.20				
67.12	26.86	67.79	1,725.49	163.66	48.70	47.44	174.41
			613.39				
626.73	213.48	338.81	2,621.00	513.03	496.44	94.48	384.69
			6,680.99				
			1,966.32				
2,053.57	420.16	661.63	824.98	131.46	798.62	247.53	601.70
			6,050.48				
686.39	389.94	597.06	4,128.10	386.56	887.81	275.57	742.95
12,562.60	3,622.08	6,055.01	88,652.42	9,154.83	6,074.62	1,941.77	5,860.71
4,084.23	914.77	1,150.83	15,761.58	536.34	923.89	169.45	1,534.21
931.00	221.00	244.00	2,902.00	305.00	484.00	117.00	424.00
3,153.23	693.77	906.83	12,859.58	231.34	439.89	52.45	1,110.21
305	124	73	1,825	267	188	33	141
80	36	41	330	98	47	25	48
7	2	1	71	6	2		2
392	162	115	2,226	371	237	58	191

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Napanee*	Norwood	Omemeë	Oshawa	Ottawa
Population.....	2,990	764	481	24,194	122,731
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	32,531.36	4,689.41	2,486.29	187,012.54	325,443.96
Commercial light service.....	19,420.55	2,546.90	1,171.33	64,912.07	157,929.08
Commercial power service.....	20,195.09	2,036.31	294.13	200,117.11	65,998.63
Municipal power.....	816.64			7,202.69	32,390.79
Street lighting.....	5,434.21	1,569.00	924.00	10,502.27	69,450.10
Merchandise.....	1,584.77				
Miscellaneous.....	3,746.49	244.04		3,380.38	
Total earnings.....	83,729.11	11,085.66	4,875.75	473,127.06	651,212.56
EXPENSES					
Power purchased.....	40,822.83	4,779.84	2,676.59	330,466.76	287,125.43
Substation operation.....					20,014.05
Substation maintenance.....					
Distribution system, operation and maintenance.....	5,415.39	693.99	417.86	9,457.27	29,820.44
Line transformer maintenance.....	595.53			498.93	499.94
Meter maintenance.....	1,449.36			6,253.50	9,236.15
Consumers' premises expenses.....	81.57			45.12	
Street lighting, operation and maintenance.....	844.21	25.44	114.76	858.18	28,316.24
Promotion of business.....	180.41				9,240.62
Billing and collecting.....	1,615.01			10,258.55	39,263.77
General office, salaries and expenses.....	3,884.15	444.00	277.45	11,481.22	20,125.00
Undistributed expenses.....	4,043.75			3,461.71	39,241.47
Truck operation and maintenance.....	824.04	168.40		2,275.30	
Interest.....	4,449.04	1,738.19	396.32	13,860.48	42,638.19
Sinking fund and principal payments on debentures.....	1,992.43	861.59	638.37	9,625.65	20,244.52
Total expenses.....	66,197.72	8,711.45	4,521.35	398,542.67	545,765.82
Gross surplus.....	17,531.39	2,374.21	354.40	74,584.39	105,446.74
Gross loss.....					
Depreciation.....	1,640.00	904.00	499.00	7,303.00	60,177.00
Net surplus.....	15,891.39	1,470.21		67,281.39	45,269.74
Net loss.....			144.60		
NUMBER OF CONSUMERS					
Domestic service.....	749	209	127	6,339	11,889
Commercial light service.....	192	65	41	513	1,442
Power service.....	32	4	6	102	213
Total.....	973	278	174	6,954	13,544

*15 months' operation.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1930

Perth	Peterboro'	Picton	Port Hope	Prescott	Richmond	Russell	Smiths Falls
3,698	22,012	3,315	4,600	2,757	362	P.V.	7,178
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
21,286.05	108,772.60	19,842.24	36,132.37	15,035.58	1,561.11	2,533.07	40,494.86
13,803.67	63,240.39	10,821.77	20,909.91	10,029.98	1,718.90	1,465.83	15,433.50
13,361.48	100,788.12	8,930.84	31,334.86	3,884.00		285.79	27,790.84
2,106.38	6,469.66	2,335.46	2,500.60	1,582.69			1,343.55
2,094.46	18,960.54	4,317.04	6,702.45	3,425.00	600.00	1,012.00	6,812.94
1,994.46		1,665.76					162.40
1,069.07	4,759.30	1,417.12	108.08	488.55			1,908.15
55,715.57	302,990.61	49,330.23	97,688.27	34,445.80	3,880.01	5,296.69	93,946.24
25,941.12	174,783.70	32,784.86	54,203.19	21,515.13	1,893.27	3,482.36	40,115.95
371.68	6,111.10			1,580.36			1,601.00
	1,138.34			21.50			55.45
1,855.95	8,976.35	1,939.63	3,105.49	2,315.54	89.80	157.86	3,977.48
363.55	907.37	138.34	238.87				
139.43	5,195.27	175.35	1,063.07	86.55			613.31
	510.00		48.31				
343.10	3,813.89	1,252.20	414.28	568.44	12.10	179.04	1,407.02
1,380.38	7,283.57	1,086.28	1,800.77	1,046.23			2,838.47
2,560.84	6,801.20	3,294.43	5,637.00	2,104.60	401.81	269.26	3,730.79
663.80	8,230.10	559.93	1,314.31	562.07			1,347.77
735.87	4,216.80	421.32	653.51				649.89
3,213.13	26,630.78	29.42	4,376.87	382.33	460.52	474.75	6,403.13
1,527.38	14,263.54	509.26	3,000.00	320.81	187.30	355.29	10,349.88
39,096.23	268,862.01	42,191.02	75,855.67	30,503.56	3,044.80	4,918.56	73,090.14
16,619.34	34,128.60	7,139.21	21,832.60	3,942.24	835.21	378.13	20,856.10
2,682.00	14,109.00	1,606.00	2,080.00	2,357.00	162.00	247.00	5,225.00
13,937.34	20,019.60	5,533.21	19,752.60	1,585.24	673.21	131.13	15,631.10
854	5,160	964	1,191	649	44	103	1,666
187	747	191	188	170	23	33	272
27	157	55	56	21		1	45
1,068	6,064	1,210	1,435	840	67	137	1,983

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Concluded

Municipality.....	Stirling	Wark- worth P.V.	Wellington 912	Whitby	Williams- burg P.V.
Population.....	879			5,307	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,438.57	2,002.15	4,313.87	19,038.11	1,378.31
Commercial light service.....	4,567.45	1,407.27	1,947.34	10,117.17	474.11
Commercial power service.....	2,096.78		3,222.39	14,784.94	190.28
Municipal power.....	351.06			2,070.65	
Street lighting.....	968.04	612.00	953.66	3,313.34	204.00
Merchandise.....	257.63				
Miscellaneous.....	364.76	151.08		652.20	86.80
Total earnings.....	15,044.29	4,172.50	10,437.26	49,976.41	2,333.50
EXPENSES					
Power purchased.....	7,102.85	2,569.60	6,090.15	30,168.29	1,388.35
Substation operation.....	163.17				
Substation maintenance.....				147.52	
Distribution system, operation and maintenance.....	1,147.12	115.98	936.68	2,805.45	57.90
Line transformer maintenance.....	3.30			92.40	
Meter maintenance.....				419.62	
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	249.35	26.77	152.09	842.73	47.26
Promotion of business.....					
Billing and collecting.....	550.00			1,531.41	
General office, salaries and expenses.....	1,070.77	177.44	580.51	1,308.21	106.00
Undistributed expenses.....				373.33	
Truck operation and maintenance.....	290.93			361.62	
Interest.....		612.94	559.10	2,838.48	74.76
Sinking fund and principal payments on debentures.....		186.20	532.18	1,130.73	172.91
Total expenses.....	10,577.49	3,688.93	8,850.71	42,019.79	1,820.18
Gross surplus.....	4,466.80	483.57	1,586.55	7,956.62	513.32
Gross loss.....					
Depreciation.....	894.00	181.00	650.00	2,477.83	116.00
Net surplus.....	3,572.80	302.57	936.55	5,478.79	397.32
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	265	91	265	787	55
Commercial light service.....	90	41	61	146	19
Power service.....	8		8	15	1
Total.....	363	132	334	948	75

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1930

		THUNDER BAY SYSTEM					
Winchester	EASTERN ONTARIO SYSTEM SUMMARY	Fort William	Nipigon	Port Arthur	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY	
1,004		24,786	P.V.	19,362			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
5,670.68	1,184,758.55	200,989.21	2,267.95	111,393.27	314,650.43	10,542,903.89	
2,883.71	631,371.86	67,540.06	2,036.21	61,070.20	130,646.47	5,961,383.23	
993.73	721,492.04	39,638.77		875,655.57	915,294.34	9,340,653.28	
	90,646.02	23,469.80		37,341.25	60,811.05	2,111,482.38	
1,062.00	211,775.15	17,475.09	640.00	15,882.45	33,997.54	1,674,528.03	
478.27	8,439.41					28,954.60	
408.30	38,652.42			17,014.66	17,014.66	581,914.78	
11,496.69	2,887,135.45	349,112.93	4,944.16	1,118,357.40	1,472,414.49	30,241,820.19	
7,997.13	1,535,632.91	223,620.85	1,590.43	732,584.03	957,795.31	17,323,077.97	
	39,959.37	6,414.88		22,466.40	28,881.28	479,502.48	
	11,925.71	761.22		5,235.99	5,997.21	320,716.48	
953.45	117,337.85	10,287.14	190.06	14,331.94	24,809.14	991,972.86	
	5,659.34	1,433.33		531.65	1,964.98	96,746.35	
	33,778.01	8,763.31	97.75	3,536.32	12,397.38	278,379.43	
	3,942.02	120.72			120.72	317,902.45	
182.45	52,586.58	6,870.64	25.66	4,700.45	11,596.75	372,211.17	
	10,297.67			3,626.98	3,626.98	249,070.05	
	84,520.66	5,489.89		5,162.44	10,652.33	745,159.02	
937.35	109,513.70	8,563.79	497.32	15,472.88	24,533.99	907,226.89	
	81,735.75	4,151.52		13,350.94	17,502.46	523,862.96	
	18,390.00			2,305.06	2,305.06	112,029.82	
451.52	156,113.83	21,527.72	453.32	20,562.36	42,543.40	2,219,791.95	
322.68	108,377.27	12,318.33	363.79	9,128.65	21,810.77	1,828,484.12	
10,844.58	2,369,770.67	310,323.34	3,218.33	852,996.09	1,166,537.76	26,766,134.00	
652.11	517,364.78	38,789.59	1,725.83	265,361.31	305,876.73	3,475,686.19	
538.00	143,712.83	9,762.00	362.00	24,571.85	34,695.85	1,574,991.68	
114.11	373,651.95	29,027.59	1,363.83	240,789.46	271,180.88	1,900,694.51	
273	48,483	5,628	109	4,128	9,865	426,601	
65	7,718	883	38	749	1,670	70,385	
3	1,221	100		99	199	12,474	
341	57,422	6,611	147	4,976	11,734	509,460	

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Acton.....	1,903	{ 127 61 1 3	80 c.p. 100 watt 150 watt 300 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	9.00 9.00 12.00 20.00	1,758.00	0.92
Agincourt.....		52	100 watt	<i>m</i>	13.00	676.00	**
Ailsa Craig....	500	{ 1 55	200 watt 100 watt	<i>m</i> <i>m</i>	18.00 10.00	568.00	1.14
Alexandria....	2,300	{ 94 41	100 watt 200 watt	<i>m</i> <i>m</i>	17.00 25.00	2,623.00	1.14
Alliston.....	1,342	{ 102 12	100 c.p. 100 watt	<i>s</i> <i>m</i>	20.00 18.00	2,051.98	1.53
Alvinston.....	612	{ 84 6	100 watt 200 watt	<i>m</i> <i>m</i>	20.00 29.00	1,854.00	3.02
Amherstburg...	2,987	{ 80 9 12 22	100 c.p. 250 c.p. 300 watt 200 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	12.00 26.00 30.00 20.00	1,972.38	0.66
Ancaster Twp..		{ 38 26	150 watt 100 watt	<i>m</i> <i>m</i>	14.00 11.50	671.83	**
Apple Hill.....		27	100 watt	<i>m</i>	17.00	458.40	**
Arkona.....	371	48	100 watt	<i>m</i>	20.00	960.00	2.59
Arthur.....	952	{ 87 7	100 watt 200 watt	<i>m</i> <i>m</i>	19.00 32.00	1,765.02	1.85
Athens.....	602	{ 40 23	100 watt 200 watt	<i>m</i> <i>m</i>	22.00 42.00	1,846.00	3.07
Aylmer.....	1,992	{ 160 25	100 watt 300 watt	<i>m</i> <i>m</i>	10.00 25.00	2,225.00	1.11
Ayr.....	781	{ 88 3	100 watt 500 watt	<i>m</i> <i>m</i>	10.00 36.00	988.00	1.27
Baden.....		65	100 watt	<i>m</i>	8.00	520.00	**
Barrie.....	7,311	{ 458 15 41 23	150 c.p. 100 watt 200 watt 300 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	8.00 15.00 18.00 22.00	5,123.00	0.70
Barton Twp....		18	100 watt	<i>m</i>	14.00	252.00	**
Beachville.....		48	100 watt	<i>m</i>	11.00	528.00	**

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Beaverton.....	970	{ 6 88 1 20	500 watt 100 watt 100 watt 100 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	30.00 8.00 8.00 6.00	1,012.34	1.04
Beeton.....	560	{ 64 14	150 c.p. 100 watt	<i>s</i> <i>m</i>	17.00 17.00	1,326.00	2.37
Belle River....	768	75	100 watt	<i>m</i>	11.00	825.00	1.07
Belleville.....	13,267	{ 557 52 24 55	100 c.p. 1,000 c.p. 250 c.p. 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	10.00 55.00 30.00 35.00	9,877.19	0.74
Blenheim.....	1,631	{ 136 4 13	150 c.p. 400 c.p. 600 c.p.	<i>s</i> <i>s</i> <i>s</i>	12.00 28.00 37.00	2,330.00	1.42
Bloomfield....	540	59	100 c.p.	<i>s</i>	14.00	826.00	1.53
Blyth.....	618	100	100 watt	<i>m</i>	13.00	1,300.00	2.11
Bolton.....	600	{ 51 23	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 21.00	943.27	1.57
Bothwell.....	603	{ 66 21	100 watt 300 watt	<i>m</i> <i>m</i>	11.00 27.00	1,292.92	2.14
Bradford.....	884	{ 60 7	150 c.p. 150 watt	<i>s</i> <i>m</i>	18.00 18.00	1,206.00	1.36
Brampton.....	4,993	{ 638 2	100 watt 500 watt	<i>m</i> <i>m</i>	8.00 35.00	5,225.65	1.05
Brantford.....	29,287	{ 145 3,480 10 12 2 20	1,500 c.p. 100 watt 150 watt 200 watt 500 watt 750 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	45.00 7.50 8.50 11.00 45.00 46.00	33,977.05	1.16
Brantford Twp.		351	100 watt	<i>m</i>	13.00	4,563.00	**
Brechin.....		25	100 watt	<i>m</i>	18.00	450.00	**
Bridgeport.....		57	100 watt	<i>m</i>	10.00	570.00	**
Brigden.....		{ 42 21	100 watt 200 watt	<i>m</i> <i>m</i>	14.00 25.00	1,098.42	**
Brighton.....	1,311	137	100 c.p.	<i>s</i>	13.00	2,226.15	†
Brockville.....	9,191	{ 583 15 38 52 6	100 c.p. 1-Lt. stds. 3-Lt. stds. 5-Lt. stds. 300 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	11.00 17.00 21.00 24.00 24.00	8,781.00	0.96

**Population not shown in Government statistics.
†15 months' operation.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Brussels.....	706	{ 79 18	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 18.00	1,272.00	1.80
Burford.....		67	100 watt	<i>m</i>	12.00	813.00	**
Burgessville.....		23	100 watt	<i>m</i>	13.00	299.00	**
Caledonia.....	1,475	{ 164 25	100 watt 200 watt	<i>m</i> <i>m</i>	8.00 13.00	1,634.88	1.01
Campbellville.....		19	100 watt	<i>m</i>	24.00	456.00	**
Cannington....	878	{ 66 3	100 watt 500 watt	<i>m</i> <i>m</i>	13.00 32.00	954.00	1.09
Cardinal.....	1,284	{ 46 6 4	100 watt 100 watt 100 watt	<i>m</i> <i>m</i> <i>m</i>	20.00 20.00 20.00	506.67	†
Carleton Place..	4,293	{ 62 95 67	60 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	10.00 15.00 20.00	3,411.13	0.79
Cayuga.....	671	77	100 watt	<i>m</i>	20.00	1,539.96	2.29
Chatham.....	16,104	{ 710 ord. 33 ord. 31 ord. 108 orn. 76 orn. 37 orn. 2 orn.	150 c.p. 250 c.p. 600 c.p. 1,000 c.p. 600 c.p. 150 c.p. 250 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i>	13.00 16.00 30.00 38.00 30.00 12.00 24.00	16,102.76	0.99
Chatsworth....	257	41	100 watt	<i>m</i>	11.00	451.00	1.76
Chesley.....	1,772	114	150 c.p.	<i>s</i>	14.00	1,594.84	0.90
Chesterville....	965	86	100 watt	<i>m</i>	12.00	1,032.00	1.07
Chippawa.....	1,171	89	100 watt	<i>m</i>	12.00	1,036.00	0.88
Clifford.....	461	59	100 watt	<i>m</i>	14.00	789.83	1.71
Clinton.....	1,937	{ 159 11 1	150 c.p. 100 watt 500 watt	<i>s</i> <i>m</i> <i>m</i>	11.00 11.00 55.00	1,968.01	1.01
Coldwater.....	615	{ 47 6	100 watt 60 watt	<i>m</i> <i>m</i>	11.00 9.00	571.00	0.93
Collingwood...	6,126	421	150 c.p.	<i>s</i>	8.00	3,354.66	0.55
Comber.....		{ 43 12	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 18.00	732.00	**
Cookstown.....		56	150 c.p.	<i>s</i>	17.00	952.00	**

**Population not shown in Government statistics.

†6, 2, and 4 months' operation respectively.

*s*Series system.

*m*Multiple system

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Cottam.....		29	100 watt <i>m</i>	\$ c. 15.00	\$ c. 403.00	\$ c **
Courtright.....	394	43	100 watt <i>m</i>	18.00	774.00	1.96
Creemore.....	610	59	100 watt <i>m</i>	10.00	590.00	0.97
Dashwood.....		41	100 watt <i>m</i>	12.00	492.00	**
Delaware.....		21	100 watt <i>m</i>	12.00	252.00	**
Dorchester.....		55	100 watt <i>m</i>	11.00	587.16	**
Drayton.....	508	75	100 watt <i>m</i>	11.00	825.00	1.62
Dresden.....	1,465	{ 129 15	100 c.p. <i>s</i> 50 watt <i>m</i>	{ 14.00 4.36	1,865.55	1.27
Drumbo.....		{ 39 1	100 watt <i>m</i> 250 watt <i>m</i>	{ 13.00 31.00	538.00	**
Dublin.....		50	100 watt <i>m</i>	15.00	750.00	**
Dundalk.....	594	78	100 watt <i>m</i>	10.00	780.00	1.31
Dundas.....	5,052	{ 316 8 1 9 54 54 3	100 watt <i>m</i> 200 watt <i>m</i> 250 watt <i>m</i> 500 watt <i>m</i> 500 watt <i>m</i> 24 watt <i>private</i> 40 watt <i>private</i>	{ 12.00 16.00 36.00 36.00 49.00	3,592.31	0.71
Dunnville.....	3,450	{ 27 245	600 watt <i>m</i> 100 watt <i>m</i>	{ 45.00 11.00	4,160.38	1.21
Durham.....	1,722	110	150 c.p. <i>s</i>	16.00	1,759.60	1.02
Dutton.....	805	105	100 watt <i>m</i>	9.00	943.20	1.17
East Windsor..	15,105	{ 354 121 185	100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	{ 8.00 14.00 20.00	8,134.67	††
Elmira.....	2,795	{ 190 8 1	100 watt <i>m</i> 200 watt <i>m</i> 1,000 watt <i>m</i>	{ 9.00 12.00 50.00	1,835.17	0.65
Elmvale.....		60	100 watt <i>m</i>	11.00	652.64	**
Elmwood.....		23	150 watt <i>m</i>	21.00	483.00	**
Elora.....	1,244	{ 101 1	100 watt <i>m</i> 250 watt <i>m</i>	{ 16.00 36.00	1,652.00	1.32
Embro.....	424	54	100 watt <i>m</i>	13.00	702.00	1.65

**Population not shown in Government statistics.

††Part of cost paid direct in form of debenture charges. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Erieau.....	210	21	100 watt	<i>m</i>	\$ c. 18.00	\$ c. 378.00	\$ c. 1.80
Essex.....	1,732	{ 116 15 4 59	60 watt 100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	11.00 11.00 22.00 26.00	2,159.35	1.24
Etobicoke Twp.....		{ 1,176 22	100 watt 100 watt	<i>m</i> <i>m</i>	13.00 17.00	15,344.42	**
Exeter.....	1,615	{ 165 23	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 18.00	1,899.00	1.17
Fergus.....	2,286	{ 129 30	100 watt 150 watt	<i>m</i> <i>m</i>	16.00 18.50	2,587.00	1.13
Finch.....	377	31	100 watt	<i>m</i>	20.00	620.00	1.64
Flesherton.....	454	{ 52 1	100 watt 300 watt	<i>m</i> <i>m</i>	10.00 25.00	545.00	1.20
Fonthill.....	763	70	100 watt	<i>m</i>	15.00	1,138.00	1.49
Forest.....	1,415	{ 123 131	100 watt 60 watt	<i>m</i> <i>m</i>	11.00 7.00	2,270.00	1.60
Fort William...	24,786	{ 2 204 73 397 202 48	400 c.p. 1,000 c.p. 600 c.p. 150 c.p. 100 watt Arcs	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	20.00 45.00 30.00 8.50 9.60 45.00	17,475.09	0.71
Galt.....	13,236	{ 923 316 152 74 100	100 c.p. 100 watt 300 watt 500 watt 200 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	9.00 12.00 35.00 40.00 20.00	21,746.50	1.64
Georgetown...	1,992	{ 170 1 16	100 watt 300 watt 100 watt	<i>m</i> <i>m</i> <i>m</i>	11.00 19.00 13.00	2,096.75	†
Glencoe.....	759	{ 111 19	100 watt 200 watt	<i>m</i> <i>m</i>	14.00 20.00	1,934.00	2.54
Goderich.....	4,221	{ 16 8 8 3 321	3-Lt. stds. 200 watt 100 watt Park Lts. 100 c.p.	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>s</i>	35.00 25.00 15.00 4.50 9.00	3,782.50	0.89
Grand Valley..	583	52	100 watt	<i>m</i>	16.00	832.00	1.43
Granton.....		37	100 watt	<i>m</i>	10.00	370.00	**

**Population not shown in Government statistics.

†Includes Glen Williams.

s Series system.

m Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Gravenhurst. . .	1,776	{ 115	100 c.p.	s	10.00	2,172.00
		{ 7	250 c.p.	s	11.00		
		{ 6	100 c.p.†	s	10.00		
		{ 21	100 watt	m	10.00		
		{ 36	100 watt†	m	10.00		
		{ 16	300 watt	m	35.00		
Guelph.	19,857	{ 20	60 watt	m	4.00	20,422.07	1.03
		{ 1,411	100 watt	m	10.00		
		{ 35	200 watt	m	12.50		
		{ 4	300 watt	m	18.75		
		{ 9	500 watt	m	25.00		
		{ 58	550 watt	m	34.00		
		{ 40	750 watt	m	43.00		
		{ 52	1,000 watt	v. m	46.50		
		{ *1	1,000 watt	m	140.00		
		*Airport Beacon.					
Hagersville. . . .	1,246	100	100 watt	m	12.00	1,200.00	0.95
Hamilton.	150,065	{ 8,229	100 watt	m	7.50	99,935.12	0.67
		{ 1,442	200 watt	m	11.00		
		{ 1	200 watt	m	70.00		
		{ 8	300 watt	m	18.00		
		{ 33	300 watt	m	26.00		
		{ 5	300 watt	m	34.00		
		{ 122	500 watt	m	32.00		
		{ 447	500 watt	m	37.00		
		{ 66	750 watt	m	55.00		
		{ 1	1,000 watt	m	70.00		
Hanover.	2,626	{ 91	150 c.p.	s	27.00	3,472.41	1.32
		{ 16	250 c.p.	s	32.00		
		{ 5	100 watt	m	27.00		
		{ 12	200 watt	m	32.00		
Harriston.	1,274	110	150 c.p.	s	11.00	1,199.92	0.94
Harrow.		{ 21	100 watt	m	12.00	854.60	**
		{ 58	200 watt	m	16.50		
Havelock.	1,421	{ 60	100 c.p.	s	18.00	1,620.00	1.14
		{ 20	250 c.p.	s	27.00		
Hensall.	753	76	100 watt	m	12.00	912.00	1.21
Hespeler.	2,719	{ 110	150 c.p.	s	10.00	2,559.64	0.94
		{ 39	250 c.p.	s	16.00		
		{ 11	400 c.p.	s	20.00		
		{ 4	400 c.p.	s	30.00		
		{ 30	150 watt	m	10.00		
		{ 7	300 watt	m	35.00		
Highgate.	350	50	100 watt	m	11.00	550.00	1.57
Holstein.		14	100 watt	m	35.00	490.00	**

**Population not shown in Government statistics.

sSeries system.

mMultiple system.

†5 months only.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Humberstone..	1,597	108	100 watt	<i>m</i>	\$ c. 12.00	\$ c. 1,296.00	\$ c. 0.81
Huntsville.....	2,608	{ 39 15 20 27 58 10	100 c.p. 250 c.p. 150 c.p. 50 watt 75 watt 50 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	14.00 36.00 18.00 10.00 10.00 10.00	2,396.00	0.92
Ingersoll.....	5,050	{ 320 15 2 28	100 c.p. 100 c.p. 600 c.p. 1,000 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i>	11.00 11.00 28.00 35.00	4,607.50	0.91
Jarvis.....	471	70	100 watt	<i>m</i>	12.00	840.00	1.88
Kemptville....	1,298	90	100 watt	<i>m</i>	20.00	1,830.00	1.41
Kincardine....	2,352	{ 127 16 19 15 2	150 c.p. 150 c.p. 100 watt 200 watt 1,000 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	21.00 26.00 15.00 26.00 130.00	3,729.60	1.59
Kingston.....	21,616	{ 79 144 287 77	1,000 c.p. 600 c.p. 600 c.p. 100 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i>	.....	20,000.00	0.92
Kingsville....	2,223	{ 138 100	250 c.p. 60 watt	<i>s</i> <i>m</i>	18.00 12.00	3,700.00	†
Kirkfield.....	.....	23	100 watt	<i>m</i>	20.00	460.00	**
Kitchener.....	28,282	{ 2,023 59 44 348 34 69 30 78 168 18 2	80 c.p. 100 c.p. 16 c.p. 200 watt 250 c.p. 300 watt 300 watt 300 watt 500 watt 1,000 c.p. 600 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00 8.00 7.00 15.00 13.00 17.50 15.00 20.00 25.00 25.00 25.00	30,174.93	1.06
Lakefield.....	1,423	104	100 watt	<i>m</i>	18.00	1,872.00	1.32
Lambeth.....	.....	{ 34 1	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 21.00	435.00	**
Lanark.....	581	37	100 watt	<i>m</i>	17.00	629.00	1.08
Lancaster.....	560	41	100 watt	<i>m</i>	36.50	1,495.00	2.67
La Salle.....	628	66	100 watt	<i>m</i>	16.00	1,094.50	1.74

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

†Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Leamington...	5,269	{ 141 38 164 24	400 c.p. <i>s</i> 600 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i>	{ 25.00 31.00 13.00 17.00	7,346.07	†
Lindsay.....	7,056	{ 416 27	100 c.p. <i>s</i> 1,000 c.p. <i>s</i>	{ 15.00 70.00	8,052.50	1.14
Listowel.....	2,545	{ 161 118 6 2 24 3	60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 250 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	{ 9.00 11.00 25.00 25.00 30.00 35.00	3,591.06	1.41
London.....	71,310	{ 1,997 301 111 284 32 8 45 11 452 21 27	150 c.p. <i>s</i> 400 c.p. <i>s</i> 400 c.p. Span <i>s</i> 600 c.p. <i>s</i> 600 c.p. <i>s</i> 150 c.p. <i>s</i> 500 watt <i>m</i> 500 watt <i>m</i> 300 watt <i>m</i> 300 watt <i>m</i> 200 watt <i>m</i>	{ 11.00 24.00 18.00 30.00 28.00 10.00 40.00 25.00 18.00 20.00 14.00	50,160.45	0.70
London Twp.....		{ 54 1	100 watt <i>m</i> 200 watt <i>m</i>	{ 12.00 16.50	664.50	**
Lucan.....	573	69	100 watt <i>m</i>	15.00	1,035.00	1.81
Lucknow.....	1,147	{ 57 16	100 watt <i>m</i> 200 watt <i>m</i>	{ 20.00 31.00	1,656.25	1.45
Lynden.....		39	100 watt <i>m</i>	10.00	388.97	**
Madoc.....	1,067	{ 342 7 3	75 watt <i>m</i> 150 watt <i>m</i> 300 watt <i>m</i>	{ 5.00 6.00 12.00	1,494.00	1.40
Markdale.....	798	84	150 c.p. <i>s</i>	8.00	672.00	0.84
Markham.....	969	{ 80 20	100 watt <i>m</i> 60 watt <i>m</i>	{ 14.00 11.00	1,340.00	1.38
Marmora.....	1,023	{ 25 40 22	75 watt <i>m</i> 100 watt <i>m</i> 150 watt <i>m</i>	{ 18.00 18.00 18.00	1,566.00	1.53
Martintown.....		15	100 watt <i>m</i>	20.00	300.00	**
Maxville.....	746	64	150 c.p. <i>s</i>	28.00	1,792.06	2.40
Meaford.....	2,729	{ 171 27 35	150 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i>	{ 13.00 13.00 22.00	3,166.90	1.16

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Merlin.....		43	100 watt	<i>m</i>	\$ c. 16.00	\$ c. 688.00	\$ c. **
Merritton.....	2,575	307	100 watt	<i>m</i>	9.00	2,773.00	1.07
Midland.....	7,826	{ 382 36 30	100 c.p. 500 watt 300 watt	<i>s</i> <i>m</i> <i>m</i>	10.00 40.00 22.00	6,113.34	0.78
Milton.....	1,775	206	100 watt	<i>m</i>	9.00	1,845.00	1.04
Milverton.....	1,122	{ 94 12	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 12.00	1,003.25	0.89
Mimico.....	5,762	{ 197 200 46	100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	15.00 23.00 30.00	8,448.96	1.46
Mitchell.....	1,645	229	100 c.p.	<i>s</i>	9.00	2,061.27	1.25
Moorefield.....		25	100 watt	<i>m</i>	15.00	375.00	**
Mount Brydges.....		46	100 watt	<i>m</i>	11.00	506.00	**
Mount Forest..	1,823	{ 39 135 16	150 c.p. 150 c.p. 100 watt	<i>s</i> <i>s</i> <i>m</i>	14.00 12.00 12.00	2,358.00	1.29
Napanee.....	2,990	{ 26 124 40	320 c.p. 100 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	37.00 16.00 32.00	5,434.21	1.82
Neustadt.....		39	150 c.p.	<i>s</i>	25.00	975.00	**
Newbury.....	298	48	100 watt	<i>m</i>	15.00	690.00	2.31
New Hamburg..	1,454	{ 212 21	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 12.50	2,233.27	1.53
New Toronto..	5,622	{ 205 26 58 126 2	75 watt 100 watt 200 watt 500 watt Intersection	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	15.00 16.00 19.00 30.00 28.00	8,429.04	1.50
Niagara Falls..	18,403	{ 784 58 2 197 208 4 4	100 c.p. 600 c.p. 250 c.p. 1,000 c.p. 600 c.p. 600 c.p. 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i>	12.00 18.00 13.00 54.00 48.00 60.00 12.00	29,896.43	1.62
Niagara-on-the Lake.....	1,547	{ 204 22	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 18.00	2,629.92	1.70
Nipigon.....		32	100 watt	<i>m</i>	20.00	640.00	**

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	c.	\$ c.
Norwich.....	1,213	{ 111 28	100 watt 400 watt	<i>m</i> <i>m</i>	10.00 35.00	2,100.00	1.73
Norwood.....	764	{ 79 6 1	150 c.p. 150 c.p. 150 c.p.	<i>s</i> <i>s</i> <i>s</i>	18.00 20.00 27.00	1,569.00	2.05
Oil Springs....	466	41	100 watt	<i>m</i>	18.00	738.00	1.58
Omeme.....	481	{ 46 10	100 c.p. 250 c.p.	<i>s</i> <i>s</i>	14.00 28.00	924.00	1.92
Orangeville....	2,721	{ 94 33 38	150 c.p. 400 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	16.00 21.00 48.00	3,977.24	1.46
Oshawa.....	24,194	{ 1 820 47 39 109	1,000 c.p. 100 c.p. 100 c.p. 100 watt 150 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	27.00 10.00 13.00 11.00 12.00	10,502.27	0.43
Ottawa.....	122,731	{ 59 368 751 774 2,900 590	Arcs 100 c.p. 400 c.p. 600 c.p. 100 watt 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	45.00 7.00 25.00 35.00 48c. per ft. 6.00	51,155.73 18,294.37	0.41
Otterville.....		{ 51 12	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 16.00	409.72	**
Owen Sound... ..	12,304	{ 390 9 2 12 316 3 3 39	150 c.p. 150 c.p. 200 c.p. 400 c.p. 250 c.p. 300 c.p. 300 watt 500 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>s</i>	11.00 11.50 14.00 21.00 14.00 15.00 19.50 35.00	10,917.25	0.89
Paisley.....	700	88	100 watt	<i>m</i>	16.00	1,408.00	2.01
Palmerston....	1,792	{ 98 8 8 1 10 2 4 2 13 1	80 c.p. 100 c.p. 250 c.p. 40 watt 60 watt 100 watt 150 watt 200 watt 300 watt 500 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	9.00 10.00 25.00 9.00 9.00 10.00 10.00 25.00 25.00 35.00	1,788.05	1.00
Paris.....	4,156	{ 448 13 25	100 c.p. 400 c.p. 500 c.p.	<i>s</i> <i>s</i> <i>s</i>	9.00 35.00 45.00	5,724.90	1.37

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Parkhill.	959	{ 78 15	100 watt 200 watt	<i>m</i> <i>m</i>	14.00 23.00	1,438.00	1.50
Penetanguishene	3,615	188	100 c.p.	<i>s</i>	10.00	1,880.00	0.52
Perth.	3,698	{ 67 14 4 16	100 c.p. 250 c.p. 400 c.p. 600 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i>	15.00 25.00 28.00 40.00	2,094.46	0.57
Peterborough. . .	22,012	{ 115 260 374 445 1	400 c.p. 60 watt 100 watt 300 watt 500 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	43.00 9.00 10.00 18.00 34.00	18,960.54	0.86
Petrolia.	2,671	{ 145 24	150 c.p. 600 c.p.	<i>s</i> <i>s</i>	12.00 38.00	2,639.91	0.98
Picton.	3,315	{ 35 221	250 c.p. 100 c.p.	<i>s</i> <i>s</i>	20.00 12.00	4,317.04	1.30
Plattsville.		34	100 watt	<i>m</i>	16.00	544.00	**
Point Edward. . .	1,378	77	150 c.p.	<i>s</i>	12.00	924.00	0.74
Port Arthur. . . .	19,362	{ 2,382 154 172	100 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i>	5.00 10.00 15.00	15,882.45	0.82
Port Colborne. . .	5,461	{ 15 78 124 228 26	400 c.p. 600 c.p. 200 watt 100 watt 100 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	25.00 28.00 17.00 12.00 14.00	7,009.07	1.28
Port Credit. . . .	1,400	{ 113 139	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 16.00	3,354.00	2.39
Port Dalhousie. .	1,656	{ 127 2	100 watt 200 watt	<i>m</i> <i>m</i>	12.50 12.50	1,612.50	0.97
Port Dover. . . .	1,628	{ 198 19	100 watt 300 watt	<i>m</i> <i>m</i>	12.50 30.00	2,926.84	1.79
Port Hope.	4,600	383	100 c.p.	<i>s</i>	14.00	6,702.45	†
Port McNicoll. . .	831	46	100 watt	<i>m</i>	11.00	506.00	0.61
Port Perry.	1,185	99	100 watt	<i>m</i>	14.00	1,397.17	1.18
Port Rowan. . . .	681	53	100 watt	<i>m</i>	24.00	1,242.00	1.82
Port Stanley. . . .	583	174	100 watt	<i>m</i>	11.00	1,914.00	3.28
Prescott.	2,757	{ 164 105	100 watt 2 Lt.-Brackets	<i>m</i> <i>m</i>	10.00 17.00	3,425.00	1.24

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

†15 months' operation.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Preston.....	5,884	{ 343 9 40 6	150 c.p. 250 watt 500 watt 5-Lt. stands.	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	{ 10.00 18.00 30.00 30.00 }	4,960.32	0.84
Priceville.....		14	100 watt	<i>m</i>	40.00	560.00	**
Princeton.....		26	100 watt	<i>m</i>	13.00	312.00	**
Queenston.....		34	100 watt	<i>m</i>	16.00	543.96	**
Richmond.....	362	24	100 watt	<i>m</i>	25.00	600.00	1.66
Richmond Hill.	1,170	{ 6 17 99	200 watt 100 watt 75 watt	<i>m</i> <i>m</i> <i>m</i>	{ 16.00 12.00 11.00 }	1,389.00	1.19
Ridgetown.....	1,983	{ 193 1 19 65	150 c.p. 1,000 c.p. 500 watt 100 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	{ 11.00 40.00 38.00 11.00 }	3,397.15	1.71
Ripley.....	423	{ 5 44	200 watt 100 watt	<i>m</i> <i>m</i>	{ 26.00 41.00 }	1,349.00	3.19
Riverside.....	4,603	{ 206 78 74	100 watt 150 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	{ 11.00 14.50 18.00 }	4,682.74	1.02
Rockwood.....		83	100 watt	<i>m</i>	9.00	747.00	**
Rodney.....	752	{ 69 14	100 watt 200 watt	<i>m</i> <i>m</i>	{ 10.00 18.00 }	942.00	1.25
Russell.....		46	100 watt	<i>m</i>	22.00	1,012.00	**
St. Catharines..	24,094	3,307	100 watt	<i>m</i>	7.50	24,778.77	1.03
St. George.....		38	100 watt	<i>m</i>	8.00	297.55	**
St. Jacobs.....		46	100 watt	<i>m</i>	10.00	445.00	**
St. Marys.....	4,072	{ 234 136	100 c.p. 250 c.p.	<i>s</i> <i>s</i>	{ 8.00 12.00 }	3,496.66	0.86
St. Thomas....	16,567	{ 1,069 114 2 26	100 c.p. 600 c.p. 600 c.p. 250 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i>	{ 9.00 34.00 32.00 13.00 }	14,066.89	0.85
Sandwich.....	10,655	{ 16 87 14 17 240 292 10	600 c.p. 400 c.p. 400 c.p. 400 c.p. 100 c.p. 100 c.p. 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i>	{ 35.00 26.00 28.00 28.00 12.00 13.00 13.00 }	10,455.21	0.98

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Sarnia	16,763	{ 875 17 82	150 c.p. 500 c.p. 1,000 c.p.	s s s	12.00 34.00 43.00	15,232.73	0.93
Scarboro Twp.		{ 2 219 317 7 418 19 2	200 c.p. 100 c.p. 300 watt 200 watt 100 watt 40 watt 60 watt	s s m m m m m	17.00 15.00 27.50 17.00 15.00 12.00 18.00	16,963.91	**
Seaforth	1,702	{ 60 58 20	80 c.p. 100 c.p. 300 watt	s s m	9.00 10.00 20.00	1,520.00	0.89
Shelburne	1,135	96	150 c.p.	s	11.00	1,049.56	0.92
Simcoe	4,675	{ 275 27 3 8 2	100 c.p. 1,000 c.p. 150 watt 200 watt 500 watt	s s m m m	10.00 40.00 10.00 10.00 53.00	3,904.67	0.84
Smiths Falls	7,178	{ 18 146 1 197	60 watt 100 watt 200 watt 300 watt	m m m m	8.50 17.00 21.00 21.00	6,812.94	0.95
Springfield	393	50	100 watt	m	11.00	550.00	1.40
Stamford Twp.		801	100 watt	m	10.00	7,009.56	**
Stayner	968	{ 77 18	150 c.p. 200 watt	s m	11.00 15.00	1,117.00	1.15
Stirling	879	122	100 c.p.	s	8.00	968.04	1.89
Stouffville	1,053	121	100 watt	m	14.00	1,694.00	1.61
Stratford	18,671	{ 858 74 6 116 62 4 4	100 c.p. 400 c.p. 400 c.p. 600 c.p. 1,000 c.p. 100 watt 500 watt	s s s s s m m	10.00 25.00 35.00 30.00 34.00 10.00 34.00	15,907.55	0.85
Strathroy	2,737	{ 330 21 34	100 c.p. 250 c.p. 300 watt	s s m	9.00 15.00 31.00	3,819.96	1.40
Sunderland		33	100 watt	m	18.00	594.00	**
Sutton†	833	{ 22 109 10	200 watt 100 watt 100 watt	m m m	17.00 13.00 13.00	1,823.50	.....

**Population not shown in Government statistics.

sSeries system.

mMultiple system.

†10 lamps 3 months only.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Tara.....	441	67	100 watt	<i>m</i>	\$ c. 25.00	\$ 1,675.00	\$ c. 3.80
Tavistock.....	995	{ 75 36	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 12.00	1,180.30	1.19
Tecumseh.....	2,260	{ 61 17	100 watt 400 c.p.	<i>m</i> <i>s</i>	12.00 21.00	1,089.00	0.48
Teeswater.....	817	{ 36 20	150 c.p. 250 c.p.	<i>s</i> <i>s</i>	25.00 40.00	1,700.00	2.08
Thamesford.....		47	100 watt	<i>m</i>	11.00	517.00	**
Thamesville....	886	{ 61 27 7	100 watt 200 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	9.00 14.00 18.00	1,059.00	1.20
Thedford.....	535	69	100 watt	<i>m</i>	15.00	1,035.00	1.93
Thorndale.....		31	100 watt	<i>m</i>	12.00	372.00	**
Thornton.....		21	100 watt	<i>m</i>	40.00	840.00	**
Thorold.....	5,037	{ 365 40 28	60 watt 100 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	7.50 8.00 12.00	3,393.50	0.67
Tilbury.....	1,886	{ 97 25	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 19.50	1,549.62	0.82
Tillsonburg....	3,166	{ 268 47 2	100 c.p. 250 c.p. 1,000 c.p.	<i>s</i> <i>s</i> <i>s</i>	8.00 13.00 45.00	2,560.48	0.81
Toronto.....	585,628	{ 45,520 2,899 67 1,373 114 5 363 68 395 24	100 watt 200 watt 250 watt 300 watt 500 watt 1,000 watt 5-lt. stds., 100 w 1-lt. stds., 500 w 1-lt. stds., 300 w 1-lt. stds., 500 w	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00-10.00 18.00-23.00 20.00 28.00 45.00 90.00 47.50 47.50 50.00 52.50	507,020.12	0.87
Toronto Twp....		{ 405 1	100 watt 300 watt	<i>m</i> <i>m</i>	12.00 43.20	4,641.89	**
Tottenham....	545	49	150 c.p.	<i>s</i>	25.00	1,225.08	2.25
Uxbridge.....	1,425	129	100 watt	<i>m</i>	12.00	1,541.00	1.08
Victoria Harbor	1,104	78	100 watt	<i>m</i>	9.00	702.00	0.64

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	c.	\$ c.
Walkerville. . . .	10,671	{ 56	600 c.p.	<i>s</i> 45.00	14,893.57	1.40
		{ 242	100 watt	<i>m</i> 8.00		
		{ 550	150 watt	<i>m</i> 11.00		
		{ 102	200 watt	<i>m</i> 13.00		
		{ 184	300 watt	<i>m</i> 18.00		
Wallaceburg. . . .	4,360	{ 186	150 c.p.	<i>s</i> 12.00	2,975.00	0.68
		{ 30	600 c.p.	<i>s</i> 25.00		
		{ 3	1,000 c.p.	<i>s</i> 39.00		
Wardsville.	214	35	75 watt	<i>m</i> 20.00	700.00	3.27
Warkworth.		{ 24	100 watt	<i>m</i> 18.00	612.00	**
		{ 6	200 watt	<i>m</i> 30.00		
Waterdown.	874	{ 75	100 watt	<i>m</i> 11.00	930.00	1.06
		{ 6	200 watt	<i>m</i> 17.50		
Waterford.	1,097	179	100 watt	<i>m</i> 9.00	1,608.00	1.47
Waterloo.	7,782	{ 125	100 c.p.	<i>s</i> 10.00	7,227.14	0.93
		{ 348	80 c.p.	<i>s</i> 8.00		
		{ 44	150 watt	<i>m</i> 36.00		
		{ 10	150 watt	<i>m</i> 25.00		
		{ 6	500 watt	<i>m</i> 35.00		
		{ 3	500 watt	<i>m</i> 30.00		
		{ 18	300 watt	<i>m</i> 21.00		
		{ 12	200 watt	<i>m</i> 12.00		
Watford.	1,045	{ 89	100 watt	<i>m</i> 12.50	1,325.07	1.27
		{ 11	200 watt	<i>m</i> 20.00		
Waubashene.		41	100 watt	<i>m</i> 8.00	328.00	**
Welland.	10,054	{ 168	600 c.p.	<i>s</i> 30.00	11,209.04	1.11
		{ 4	500 watt	<i>m</i> 28.00		
		{ 52	200 watt	<i>m</i> 18.00		
		{ 409	100 watt	<i>m</i> 11.00		
		{ 12	300 watt	<i>m</i> 30.00		
Wellesley.		60	100 watt	<i>m</i> 12.00	720.00	**
Wellington.	912	{ 68	100 c.p.	<i>s</i> 12.00	953.66	1.05
		{ 37	100 c.p.	<i>s</i> 12.00		
		{ 32	250 c.p.	<i>s</i> 19.00		
West Lorne.	777	{ 83	100 watt	<i>m</i> 10.00	1,010.04	1.30
		{ 10	200 watt	<i>m</i> 18.00		
Weston.	4,425	{ 110	600 c.p.	<i>s</i> 30.00	7,549.75	1.71
		{ 434	100 c.p.	<i>s</i> 7.50		
		{ 2	250 c.p.	<i>s</i> 10.00		
		{ 5	5-Lt. stds.	<i>m</i> 21.00		
		{ 2	100 watt	<i>m</i> 7.50		
		{ 2	25 watt	<i>m</i> 2.50		
		{ 20	300 watt	<i>m</i> 11.00		
		2	Signs.	<i>m</i> 110.00		

**Population not shown in Government statistics.

*s*Series system.*m*Multiple system.

STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Wheatley.....	698	{ 71 40	100 watt 300 watt	<i>m</i> <i>m</i>	12.00 26.00	1,830.42	2.62
Whitby.....	5,307	{ 99 136 113 3	100 c.p. 80 c.p. 100 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	10.00 9.00 7.50 11.50	3,313.34	0.62
Williamsburg.....		17	100 watt	<i>m</i>	12.00	204.00	**
Winchester....	1,004	118	100 watt	<i>m</i>	9.00	1,062.00	1.06
Windermere†...	123	13	100 watt	<i>m</i>	35.00	189.50	.....
Windsor.....	68,569	{ 66 642 1,004 669 2,254	1,000 c.p. 600 c.p. 400 c.p. 100 c.p. 100 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i>	46.00 43.00 24.00 12.00 11.00	85,266.83	1.24
Wingham.....	2,362	{ 99 22 27	150 c.p. 200 c.p. 200 watt	<i>s</i> <i>s</i> <i>m</i>	20.00 33.00 33.00	3,597.00	1.52
Woodbridge....	727	82	100 watt	<i>m</i>	10.00	810.00	1.11
Woodstock....	10,687	{ 514 14 87 25 72	100 c.p. 250 c.p. 75 watt 150 watt 300 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	8.00 20.00 8.00 12.00 32.00	7,171.44	0.67
Woodville.....	405	{ 35 4	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 20.00	482.00	1.19
Wyoming.....	472	50	100 watt	<i>m</i>	15.00	750.00	1.59
York, East, Township.....		{ 881 238 15	100 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i>	14.00 26.00 29.00	18,328.94	**
York, North, Township.....		{ 81 19 18 12 34 65	100 watt 100 watt 100 watt 100 watt 150 watt 200 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 13.00 13.50 15.00 32.00 23.00	4,043.30	**
Zurich.....		63	100 watt	<i>m</i>	11.00	693.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†5 months only.

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Ontario Municipalities Served by The Hydro-Electric Power Commission

The following tabulation of various statistical data relating to the supply of electrical energy to consumers by individual municipalities receiving power at cost from the Commission sets forth, regarding the results of operation from the standpoint of the consumers, much useful and interesting information.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or of the smallness of the quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

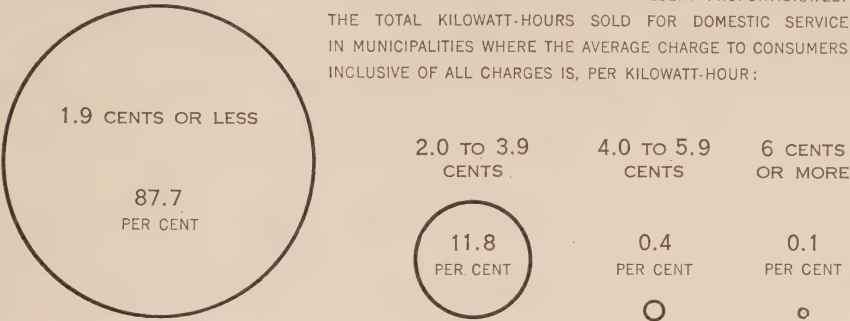
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should specially be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give very misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are simply statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE
IN MUNICIPALITIES SERVED BY THE
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

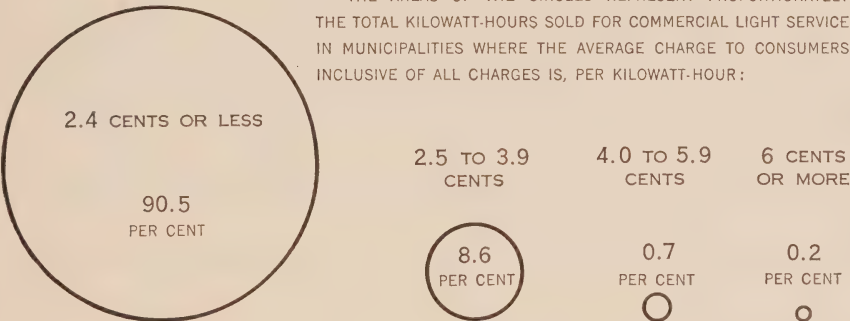
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are principally due to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour, to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour." This will readily be perceived from a simple arithmetical example.

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	.....	130,000	10,000,000	.....	142,500
Average revenue..	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the key to the situation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil an important function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made economically possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for effecting comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the ultimate consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations and the approximate transmission distances are also given.

A feature of the electrical service in Ontario municipalities is the strikingly large average annual consumption per domestic consumer. There are in all about 182 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 76 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 49 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 27 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 11 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing electrical service "at cost"; the rate schedules scientifically designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 when he obtains the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Belleville.....	E.O.	13,267	13	81,518.07	4,694,881	3,028	131	2.25	1.7
Brantford.....	Nia.	29,287	79	160,236.81	10,379,439	6,426	138	2.14	1.5
Chatham.....	Nia.	16,104	193	77,814.48	4,540,139	3,815	100	1.71	1.7
East Windsor....	Nia.	15,105	239	83,936.97	4,819,468	2,817	142	2.46	1.7
Fort William....	T.B.	24,786	87	200,989.21	26,161,720	5,628	391	3.01	0.8
Galt.....	Nia.	13,236	92	105,465.02	5,610,001	3,450	136	2.57	1.9
Guelph.....	Nia.	19,857	75	100,184.50	5,689,423	5,000	96	1.69	1.8
Hamilton.....	Nia.	134,566	53	798,848.99	53,912,988	32,309	142	2.10	1.5
Kingston.....	E.O.	21,616	50	98,839.73	4,342,083	5,374	68	1.55	2.3
Kitchener.....	Nia.	28,282	95	181,079.68	10,967,667	6,751	139	2.30	1.7
London.....	Nia.	68,404	123	445,925.63	32,015,040	16,690	160	2.24	1.4
Niagara Falls....	Nia.	18,403	1	150,408.18	13,315,248	4,532	249	2.81	1.1
Oshawa.....	E.O.	24,194	75	187,012.54	7,098,241	6,339	93	2.45	2.6
Ottawa.....	E.O.	122,731	1	325,443.96	40,207,559	11,889	284	2.30	0.8
Owen Sound.....	G.B.	12,304	32	54,009.53	3,068,378	3,014	86	1.51	1.8
Peterborough....	E.O.	22,012	2	108,772.60	5,935,441	5,160	96	1.76	1.8
Port Arthur.....	T.B.	19,362	73	111,393.27	8,411,904	4,128	172	2.28	1.3
St. Catharines...	Nia.	24,094	18	140,271.42	11,134,477	5,979	158	2.19	1.3
St. Thomas.....	Nia.	16,567	134	101,984.90	6,548,740	4,126	133	2.07	1.6
Sarnia.....	Nia.	16,763	205	100,945.88	5,198,433	4,476	97	1.89	1.9
Stratford.....	Nia.	18,671	119	141,864.86	8,966,540	4,296	175	2.77	1.6
Toronto.....	Nia.	585,628	78	3,346,607.91	222,028,372	146,603	128	1.92	1.5
Toronto D.C. and 60 cycle*.....				61,971.07	1,985,588	1,103	127	3.96	3.1
Welland.....	Nia.	10,054	14	52,347.87	2,965,423	2,212	112	1.97	1.8
Windsor.....	Nia.	68,569	238	531,544.87	33,924,110	14,787	188	2.96	1.6
Woodstock.....	Nia.	10,687	94	78,764.88	4,802,402	2,787	145	2.37	1.6

*This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. The service has been continued at the request of the customers who preferred to retain the electrical apparatus installed for this special service, and has been continued at the rates prevailing before the service was acquired by the Commission.

Group II—TOWNS

			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Alexandria.....	E.O.	2,300	30	7,521.20	136,252	310	37	2.06	5.5
Amherstburg....	Nia.	2,987	257	19,760.34	861,005	640	113	2.60	2.3
Aylmer.....	Nia.	1,992	145	10,059.72	460,320	609	64	1.40	2.2
Barrie.....	G.B.	7,311	48	41,410.23	2,606,570	1,824	121	1.93	1.6
Brampton.....	Nia.	4,993	78	34,345.65	2,174,258	1,324	138	2.17	1.6
Brockville.....	E.O.	9,191	62	36,776.61	17,974,26	2,406	62	1.27	2.0
Carleton Place...	E.O.	4,293	47	18,611.03	494,960	908	46	1.71	3.8
Collingwood.....	G.B.	6,126	24	25,300.98	1,274,414	1,384	77	1.53	2.0
Dundas.....	Nia.	5,052	52	21,023.03	1,138,494	1,166	83	1.52	1.8
Dunnville.....	Nia.	3,450	37	11,151.21	401,866	604	57	1.59	2.8

NOTE: Systems:—Niagara = Nia.; Georgian Bay = G.B.; Eastern Ontario = E.O.; Thunder Bay = T.B.

"D"

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930
Population, 10,000 or more

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
57,241.65	2,032,510	507	336	9.41	2.8	50,270.39	93	2,269	3,628
44,198.28	4,230,728	736	494	5.17	1.0	133,935.35	111	7,448	7,273
69,173.38	4,271,101	701	508	8.23	1.6	70,820.96	110	3,453	4,626
25,818.99	1,195,839	304	322	6.95	2.2	68,914.40	43	2,819	3,164
67,540.06	4,063,690	883	377	6.27	1.7	63,108.57	100	3,216	6,611
43,460.78	2,179,259	498	351	7.17	2.0	83,360.95	116	4,579	4,064
47,272.62	2,828,261	715	332	5.56	1.7	119,140.06	136	6,974	5,851
190,689.83	16,355,876	3,564	397	4.63	1.2	946,575.89	855	41,857	36,728
71,238.20	3,582,800	863	355	7.08	2.0	76,807.24	140	4,009	6,377
103,749.02	6,612,761	938	602	9.44	1.6	251,998.04	243	13,023	7,932
190,442.03	12,977,820	2,634	420	6.17	1.5	410,127.75	508	20,654	19,832
65,260.95	5,701,453	720	656	7.51	1.1	77,932.34	95	4,446	5,347
64,912.07	2,423,786	513	394	10.54	2.7	207,319.80	102	8,025	6,954
157,929.08	9,820,722	1,442	564	9.07	1.6	98,389.42	213	6,473	13,544
33,237.98	1,956,985	567	299	5.08	1.7	37,354.27	122	2,361	3,703
63,240.39	3,332,823	747	372	7.06	1.9	107,257.78	157	5,876	6,064
61,070.20	3,584,302	749	400	6.82	1.7	912,996.82	99	46,161	4,976
43,424.93	2,899,226	644	394	5.90	1.5	90,566.30	144	6,140	6,767
44,999.76	2,843,000	642	371	5.85	1.6	57,459.18	106	3,244	4,874
47,278.37	2,495,290	609	343	6.50	1.9	163,372.87	85	5,536	5,170
48,151.46	2,399,800	627	327	6.57	2.0	62,907.40	141	2,769	5,064
2,699,802.99	118,735,075	24,964	404	9.19	2.3	3,213,552.67	4,127	126,223	175,694
268,503.67	6,822,614	1,582	331	13.01	3.9	574,657.50	1,124	19,912	3,809
31,576.59	1,894,871	427	374	6.24	1.7	63,698.95	81	3,300	2,720
274,997.73	16,302,125	2,398	564	9.52	1.7	239,963.66	363	10,236	17,548
39,725.09	2,411,639	454	456	7.51	1.6	55,035.88	91	3,364	3,332

NOTE—The figures for power service for Toronto do not include street railway power, or exhibition power.

NOTE—The above group of 25 cities utilizes about 80 per cent. of the power distributed by the Commission to Ontario municipalities.

of Population, 2,000 or more

\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
4,350.80	91,835	98	75	3.57	4.7	6,342.60	13	170	421
7,543.41	332,866	136	197	4.46	2.3	7,407.38	17	254	793
7,563.07	358,997	129	234	4.92	2.1	5,788.77	13	298	751
23,358.23	1,292,404	336	323	5.85	1.8	12,914.42	35	727	2,195
15,398.20	872,250	227	321	5.65	1.8	16,393.18	54	1,055	1,605
23,669.57	1,389,356	425	274	4.66	1.7	43,284.47	71	2,003	2,902
9,247.04	261,986	182	117	4.14	3.5	21,880.43	20	804	1,110
10,857.35	477,240	260	153	3.48	2.3	28,009.72	56	1,440	1,700
11,812.17	639,406	177	302	5.58	1.8	23,044.44	42	1,434	1,385
11,238.83	477,477	188	214	5.04	2.4	14,507.24	29	631	821

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Elmira.....	Nia.	2,795	107	15,917.45	946,770	538	150	2.52	1.7
Goderich.....	Nia.	4,221	167	25,187.65	1,088,809	1,184	79	1.82	2.3
Hanover.....	G.B.	2,626	35	18,205.31	734,638	690	90	2.23	2.5
Hespeler.....	Nia.	2,719	90	17,836.46	868,370	688	106	2.18	2.1
Huntsville.....	G.B.	2,608	26	10,269.10	389,920	569	60	1.57	2.6
Ingersoll.....	Nia.	5,050	104	32,567.41	1,815,300	1,321	115	2.06	1.8
Kincardine.....	G.B.	2,352	69	14,053.52	3,933,56	542	61	2.17	3.6
Kingsville.....	Nia.	2,223	255	13,405.06	348,645	702	42	1.60	3.8
Leamington.....	Nia.	5,269	263	24,072.55	890,751	1,256	60	1.62	2.7
Lindsay.....	E.O.	7,056	19	40,094.36	1,172,626	1,825	54	1.84	3.4
Listowel.....	Nia.	2,545	154	17,321.31	844,844	695	102	2.09	2.1
Meaford.....	G.B.	2,729	23	11,304.03	374,095	628	50	1.52	3.0
Merriton.....	Nia.	2,575	16	12,065.94	654,096	620	89	1.64	1.8
Midland.....	G.B.	7,826	25	34,006.94	2,075,803	1,550	111	1.82	1.6
Mimico.....	Nia.	5,762	75	52,674.50	3,222,272	1,628	168	2.75	1.6
Napanee*.....	E.O.	2,990	19	32,531.36	.....	749	.....	.....	.....
New Toronto....	Nia.	5,622	76	30,942.44	1,825,237	1,275	119	2.02	1.7
Orangeville....	G.B.	2,721	47	12,265.53	455,273	631	61	1.64	2.7
Paris.....	Nia.	4,156	76	24,481.40	1,396,342	1,053	97	1.69	1.6
Penetang.....	G.B.	3,615	29	9,038.18	484,334	545	83	1.55	1.9
Perth.....	E.O.	3,698	21	21,286.05	778,045	854	78	2.12	2.7
Petrolia.....	Nia.	2,671	231	11,059.06	450,820	633	58	1.41	2.5
Pictou.....	E.O.	3,315	33	19,842.24	994,440	964	88	1.75	2.0
Port Colborne...	Nia.	5,461	21	29,972.85	1,488,390	1,295	100	2.01	2.0
Port Hope*.....	E.O.	4,600	43	36,132.37	.....	1,191	.....	.....	.....
Prescott.....	E.O.	2,757	48	15,035.58	960,718	649	127	1.99	1.6
Preston.....	Nia.	5,884	86	47,275.32	2,595,810	1,538	142	2.59	1.8
Riverside.....	Nia.	4,603	243	44,159.30	2,125,569	1,127	158	3.29	2.1
St. Marys.....	Nia.	4,072	133	26,279.64	1,347,111	1,008	113	2.20	2.0
Sandwich.....	Nia.	10,655	245	96,806.75	6,279,489	2,802	187	2.89	1.5
Simcoe.....	Nia.	4,675	103	15,546.85	820,784	903	78	1.48	1.9
Smiths Falls....	E.O.	7,178	38	40,494.86	1,458,421	1,666	74	2.07	2.8
Strathroy.....	Nia.	2,737	150	18,735.50	928,064	786	99	1.99	2.0
Thorold.....	Nia.	5,037	9	20,101.17	1,073,619	1,166	76	1.41	1.9
Tillsonburg.....	Nia.	3,166	116	13,795.78	661,010	832	66	1.39	2.1
Walkerville.....	Nia.	10,671	239	107,115.09	7,340,621	2,581	234	3.41	1.5
Wallaceburg.....	Nia.	4,360	211	17,359.71	767,216	989	65	1.47	2.6
Waterloo.....	Nia.	7,782	96	54,979.67	3,498,556	1,792	167	2.63	1.6
Weston.....	Nia.	4,425	80	35,306.90	2,667,955	1,149	196	2.59	1.3
Whitby.....	E.O.	5,307	80	19,038.11	915,144	787	97	2.02	2.1
Wingham.....	G.B.	2,362	70	13,012.04	361,142	553	55	2.09	3.6

*15 months' operation.

NOTE—The above group of 51 towns utilizes about 12 per cent of the power distributed by the Commission to Ontario municipalities.

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

of Population, 2,000 or more

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw.-hr.		kw.-hr	\$ c.	cents	\$ c.			
6,918.35	286,480	126	190	4.59	2.4	14,026.76	21	680	685
12,508.69	443,245	216	174	4.91	2.8	17,450.91	21	725	1,421
6,235.60	258,929	111	190	4.58	2.4	19,703.91	19	717	820
5,550.67	275,796	109	215	4.32	2.0	17,838.62	24	962	821
6,777.95	289,221	95	251	5.88	2.3	15,195.68	10	879	674
16,093.05	903,120	235	310	5.39	1.8	26,417.85	43	1,377	1,599
6,927.47	167,909	117	117	4.85	4.1	9,331.04	19	366	678
6,208.22	180,920	165	94	3.22	3.4	3,298.66	15	142	882
15,241.16	495,565	244	177	5.45	3.1	19,724.16	29	551	1,529
23,776.28	729,066	330	182	5.95	3.3	30,204.16	71	1,439	2,226
7,924.86	321,234	157	172	4.23	2.5	11,895.68	24	535	876
6,041.26	199,568	131	125	3.79	3.0	5,200.04	16	247	775
2,287.24	118,604	55	180	3.47	1.9	53,575.16	8	2,569	683
13,606.04	708,086	249	243	4.66	1.9	75,380.20	62	5,070	1,861
8,522.67	392,389	130	250	5.42	2.2	7,318.04	14	415	1,772
19,420.55	.....	192	.....	.....	.....	21,011.73	32	.....	973
10,151.94	617,676	138	376	6.18	1.6	118,082.18	26	5,047	1,439
9,307.20	320,104	157	170	4.97	2.9	8,672.25	27	385	815
7,995.27	406,391	176	192	3.79	2.0	12,859.50	25	702	1,254
3,826.82	199,445	100	169	3.22	1.9	11,861.86	26	521	671
13,803.67	404,370	187	184	6.29	3.4	15,467.86	27	613	1,068
6,576.83	247,985	182	112	2.97	2.7	23,952.88	57	785	872
10,821.77	435,367	191	194	4.82	2.5	11,266.30	55	465	1,210
13,041.07	591,813	201	250	5.52	2.2	15,775.27	20	543	1,516
20,909.91	.....	188	.....	.....	.....	33,835.46	56	.....	1,435
10,029.98	537,396	170	267	4.98	1.8	5,466.69	21	340	840
19,921.17	904,738	225	330	7.25	2.2	43,097.98	51	2,358	1,814
5,074.70	202,874	56	305	7.62	2.5	10,317.61	8	253	1,191
8,558.17	299,538	187	131	3.73	2.9	17,730.45	37	728	1,232
20,331.08	1,076,051	236	404	7.63	1.9	19,954.62	37	925	3,075
20,486.28	1,039,607	280	317	6.24	2.0	20,392.78	38	834	1,221
15,433.50	594,293	272	187	4.85	2.6	29,134.39	45	1,002	1,983
10,054.50	461,702	179	215	4.68	2.2	9,984.28	26	424	991
6,368.17	453,035	180	196	2.75	1.4	31,331.61	14	1,620	1,360
11,772.71	585,920	206	238	4.75	2.0	11,131.65	30	653	1,068
34,795.69	1,665,631	354	396	8.27	2.1	177,559.60	102	7,945	3,037
9,663.97	384,965	204	149	3.73	2.5	49,375.13	24	1,981	1,217
21,987.94	1,097,374	233	399	8.00	2.0	31,445.27	73	1,780	2,098
8,966.48	494,702	180	233	4.22	1.8	50,587.63	27	2,325	1,356
10,117.17	357,759	146	204	5.77	2.8	16,855.59	15	663	948
7,839.83	194,175	161	101	4.06	4.0	11,846.91	25	410	739

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent. of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Acton.....	Nia.	1,903	91	10,092.08	519,385	490	90	1.74	1.9
Agincourt.....	Nia.	P.V.	93	4,277.53	140,590	136	86	3.56	3.0
Ailsa Craig.....	Nia.	500	148	2,890.81	91,291	134	57	1.81	3.2
Alliston.....	G.B.	1,342	74	8,934.35	200,218	344	50	2.22	4.4
Alvinston.....	Nia.	612	267	4,487.57	66,143	158	35	2.38	6.8
Ancaster Twp....	Nia.	4,124	59	7,851.58	395,384	252	131	2.60	2.0
Apple Hill.....	E.O.	P.V.	19	983.37	15,742	38	35	2.16	6.2
Arkona.....	Nia.	371	250	2,356.15	47,016	114	38	1.93	5.0
Arthur.....	G.B.	952	63	4,109.62	68,955	170	35	2.10	6.0
Athens.....	E.O.	602	75	4,359.11	72,487	125	49	2.95	6.0
Ayr.....	Nia.	781	84	4,290.39	219,045	189	97	1.90	2.0
Baden.....	Nia.	P.V.	103	3,389.53	174,324	125	118	2.30	1.9
Barton Twp.....	Nia.	1,597	46	1,943.39	79,951	70	93	2.25	2.4
Beachville.....	Nia.	P.V.	101	2,914.18	116,378	125	79	1.97	2.5
Beaverton†.....	G.B.	970	28	7,534.99	252,870	380	56	1.65	3.0
Beeton.....	G.B.	560	80	3,601.08	67,718	121	48	2.56	5.3
Belle River.....	Nia.	768	250	4,164.62	150,335	181	70	1.95	2.8
Blenheim.....	Nia.	1,631	202	8,021.89	318,566	484	55	1.37	2.5
Bloomfield.....	E.O.	540	29	2,970.96	87,979	149	50	1.68	3.4
Blyth.....	Nia.	618	161	3,395.84	80,475	153	46	1.93	4.2
Bolton.....	Nia.	600	98	3,023.46	88,350	144	51	1.74	3.4
Bothwell.....	Nia.	603	217	2,791.61	83,102	163	44	1.46	3.4
Bradford.....	G.B.	884	74	4,943.67	109,342	195	47	2.13	4.5
Brantford Twp..	Nia.	7,053	79	19,839.70	921,718	750	103	2.22	2.2
Brechin.....	G.B.	P.V.	18	963.33	19,896	39	41	2.01	4.8
Bridgeport.....	Nia.	P.V.	98	3,483.86	160,516	101	134	2.90	2.2
Brigden.....	Nia.	P.V.	233	2,259.14	46,145	107	36	1.78	4.9
Brighton*.....	E.O.	1,311	12	12,179.25	406	406	61	2.17	3.6
Brussels.....	Nia.	706	159	4,895.77	137,145	195	61	2.17	3.6
Burford.....	Nia.	P.V.	83	4,305.72	190,552	184	88	1.98	2.3
Burgessville.....	Nia.	P.V.	116	1,221.09	35,212	55	55	1.92	3.5
Caledonia.....	Nia.	1,475	65	4,441.06	136,350	275	44	1.43	3.3
Campbellville.....	Nia.	P.V.	96	1,244.91	25,974	40	56	2.66	4.8
Cannington.....	G.B.	878	36	4,684.07	166,989	234	60	1.70	2.8
Cardinal†.....	E.O.	1,284	38	1,762.98	245	245			

*15 months' operation. †5 months' operation. ‡Includes certain rural consumers.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent. of these municipalities obtain their power, not from Niagara, but from relatively small and isolated water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement "D," page 366.

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
3,309.90	161,627	81	166	3.41	2.1	16,378.01	20	650	591
992.41	23,128	20	101	4.35	4.3	1,410.88	2	62	158
1,446.97	46,274	38	94	2.94	3.1	1,441.67	2	60	174
4,830.33	102,954	108	81	3.80	4.7	3,096.71	14	137	466
2,658.11	46,257	59	65	3.75	5.7	1,083.91	3	28	220
1,528.44	82,956	37	187	3.44	1.8	446.29	5	38	294
723.72	13,877	17	68	3.55	5.2	318.62	1	10	56
1,345.52	34,167	36	75	2.95	3.9	987.70	4	26	154
3,610.75	54,930	86	54	3.58	6.6	1,550.34	4	51	260
2,334.98	32,326	42	67	4.86	7.2	** 122.26	1	.....	168
1,623.11	61,191	47	106	2.82	2.7	1,042.10	5	39	241
1,250.29	51,956	30	144	3.47	2.4	5,614.67	3	207	158
108.22	4,124	5	69	1.81	2.6	800.29	2	57	77
889.85	28,797	27	83	2.56	3.2	8,714.65	4	376	156
2,453.43	102,580	58	149	3.56	2.4	2,415.27	10	108	448
2,530.27	46,468	35	111	6.02	5.4	3,599.98	6	105	162
1,611.39	44,327	36	106	3.84	3.6	1,170.99	4	52	221
5,929.97	290,811	118	209	4.26	2.0	4,764.14	14	202	616
988.56	23,758	24	79	3.30	4.2	2,470.44	10	84	183
1,577.54	34,896	46	58	2.63	4.5	814.42	4	43	203
820.47	22,793	40	47	1.71	3.6	2,372.35	9	92	193
1,382.60	52,169	46	91	2.40	2.7	977.98	5	76	214
3,274.98	78,815	62	109	4.55	4.2	4,220.55	8	149	265
4,059.12	195,005	42	369	7.69	2.1	2,667.19	6	119	798
994.69	24,610	26	76	3.07	4.0	907.72	4	38	69
983.98	36,596	16	191	5.13	2.7	184.65	3	13	120
1,683.04	49,061	38	102	3.51	3.4	1,742.06	6	69	151
6,638.60	.....	104	.....	.....	.....	4,587.42	10	.....	520
2,289.87	59,630	60	84	3.23	3.8	512.37	2	17	257
972.40	42,992	35	102	2.32	2.3	1,855.05	4	69	223
650.21	16,873	23	61	2.36	3.9	1,060.27	2	43	80
4,601.58	173,720	87	168	4.46	2.6	2,587.11	8	92	370
443.05	14,811	8	154	4.62	3.0	.....	.....	.....	48
2,183.76	69,410	66	88	2.76	3.1	770.52	11	54	311
694.16	.....	35	.....	.....	.....	239.77	2	.....	282

**One month only.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Cayuga.....	Nia.	671	82	2,437.21	63,240	94	61	2.33	3.8
Chatsworth.....	G.B.	257	23	1,230.50	18,810	58	27	1.77	6.5
Chesley.....	G.B.	1,772	46	7,895.91	271,151	413	55	1.61	2.9
Chesterville.....	E.O.	968	44	4,805.86	196,383	212	77	1.89	2.5
Chippawa.....	Nia.	1,171	4	6,664.61	315,570	280	99	2.10	2.1
Clifford.....	Nia.	461	173	1,998.00	43,251	95	39	1.80	4.6
Clinton.....	Nia.	1,937	155	11,404.08	478,237	514	78	1.87	2.4
Coldwater.....	G.B.	615	17	2,562.80	109,580	129	71	1.67	2.3
Comber.....	Nia.	P.V.	216	2,592.84	73,742	100	62	2.18	3.5
Cookstown.....	G.B.	P.V.	65	2,107.44	27,794	96	25	1.87	7.6
Cottam.....	Nia.	P.V.	257	2,585.18	58,808	105	48	2.09	4.4
Courtright.....	Nia.	394	215	1,943.52	30,598	71	36	2.28	6.4
Creemore.....	G.B.	610	60	2,293.11	55,752	152	31	1.28	4.1
Dashwood.....	Nia.	P.V.	163	1,673.53	39,913	67	52	2.58	4.2
Delaware.....	Nia.	P.V.	137	1,275.24	23,269	48	40	2.21	5.5
Dorchester.....	Nia.	P.V.	129	2,524.25	87,116	130	56	1.62	2.9
Drayton.....	Nia.	508	169	2,881.87	89,804	154	49	1.58	3.2
Dresden.....	Nia.	1,465	210	5,515.99	171,799	349	41	1.32	3.2
Drumbo.....	Nia.	P.V.	90	2,057.72	62,264	83	65	2.14	3.3
Dublin.....	Nia.	P.V.	140	1,261.72	29,629	38	59	2.50	4.3
Dundalk.....	G.B.	594	18	2,510.21	67,258	160	36	1.34	3.7
Durham.....	G.B.	1,722	23	5,415.39	177,510	387	39	1.19	3.0
Dutton.....	Nia.	805	152	3,408.09	127,679	204	52	1.40	2.7
Elmvale.....	G.B.	P.V.	32	2,446.83	84,230	134	50	1.44	2.9
Elmwood.....	G.B.	P.V.	40	1,002.07	13,005	55	21	1.59	7.7
Elora.....	Nia.	1,244	94	6,667.85	286,134	305	80	1.86	2.3
Embro.....	Nia.	424	107	2,599.74	66,379	95	58	2.28	3.9
Erieau.....	Nia.	210	210	3,176.24	66,138	116	46	2.23	4.8
Erie Beach*.....	Nia.	21	209	1,229.61	20,817	61	30	1.77	5.9
Essex.....	Nia.	1,732	254	8,641.52	307,190	447	61	1.68	2.8
Etobicoke Twp...	Nia.	14,212	73	95,905.81	4,245,597	3,653	98	2.21	2.3
Exeter.....	Nia.	1,615	155	10,769.94	441,447	441	84	2.08	2.4
Fergus.....	Nia.	2,286	94	14,022.53	658,885	599	94	2.00	2.2
Finch.....	E.O.	377	53	2,111.18	25,486	70	31	2.54	8.3
Flesherton.....	G.B.	454	7	2,458.16	61,530	126	41	1.65	4.0
Fonthill.....	Nia.	763	25	4,784.55	178,087	209	72	1.93	2.7
Forest.....	Nia.	1,415	256	10,184.51	326,840	450	61	1.91	3.1
Georgetown.....	Nia.	1,992	100	12,790.62	640,362	637	86	1.71	2.0
Glencoe.....	Nia.	759	229	5,420.70	134,194	219	52	2.08	4.0
Grand Valley....	G.B.	583	51	2,842.89	55,134	135	34	1.77	5.2

*Unusual conditions—summer resort.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
2,162.13	51,686	48	92	3.83	4.2	1,381.13	3	31	145
1,428.43	27,040	32	68	3.61	5.3	420.48	1	20	91
3,936.88	157,270	102	128	3.22	2.5	10,035.47	20	347	535
2,239.60	69,038	57	103	3.16	3.2	3,200.30	3	110	272
1,504.38	92,737	43	180	2.92	1.6	1,950.20	7	57	330
1,378.42	36,663	38	83	3.10	3.8	105.25	1	5	134
5,603.11	190,076	120	134	3.96	2.9	5,455.00	15	210	649
1,528.98	62,115	57	89	2.20	2.5	5,258.57	4	182	190
2,266.22	59,035	46	108	4.15	3.8	3,221.99	2	75	148
1,452.24	20,736	36	48	3.36	7.0	330.44	3	16	135
1,339.16	44,294	26	137	4.13	3.0	360.00	1	15	132
1,023.31	21,543	23	78	3.71	4.8	389.88	1	8	95
1,753.75	50,015	55	76	2.66	3.5	1,338.05	5	59	212
988.10	18,245	25	61	3.29	5.4	1,265.06	1	42	93
686.33	15,608	19	68	3.01	4.4	.....	.....	.....	67
888.77	26,521	31	71	2.39	3.4	552.98	2	35	163
1,915.97	47,748	61	71	2.85	4.0	1,285.03	5	60	220
4,819.53	174,861	117	127	3.49	2.8	5,813.64	14	213	480
768.16	24,063	24	84	2.67	3.2	841.23	2	28	109
926.70	19,874	27	72	3.36	4.7	516.59	3	21	68
2,208.63	66,684	72	75	2.49	3.3	2,148.21	3	111	235
4,033.69	133,555	99	111	3.34	3.0	11,075.48	10	428	496
2,774.14	106,881	70	126	3.28	2.6	3,148.57	7	139	281
1,654.62	50,595	55	77	2.51	3.3	3,738.89	10	221	199
514.80	7,777	20	33	2.20	6.6	1,302.12	1	31	76
3,648.42	115,071	77	125	3.95	3.2	8,391.00	3	336	385
1,720.28	32,600	47	62	3.30	5.3	1,460.86	3	46	145
866.44	14,153	11	107	6.56	6.1	550.42	2	26	129
210.56	2,880	2	120	8.78	7.3	.....	.....	.....	63
6,049.65	222,586	118	159	4.31	2.7	7,963.95	20	318	585
22,906.22	1,241,400	329	315	5.82	1.8	16,544.62	23	767	4,005
5,132.00	153,764	118	108	3.59	3.3	6,060.77	10	267	569
6,214.30	213,435	119	153	4.45	2.9	11,069.44	18	400	736
1,729.66	22,988	34	56	4.24	7.5	912.48	1	25	105
1,739.56	43,887	45	85	3.37	3.9	366.39	2	17	173
832.97	27,786	26	89	2.67	3.0	587.86	4	24	239
4,621.17	151,625	125	99	3.01	3.0	5,057.25	23	192	598
5,556.57	261,082	130	170	3.62	2.1	21,158.81	24	930	791
3,407.26	99,033	79	107	3.69	3.4	3,140.85	6	107	304
2,120.89	32,403	50	52	3.43	6.5	1,707.70	2	59	187

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population)

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Granton	Nia.	P.V.	147	1,656.60	62,997	79	66	1.75	2.6
Gravenhurst	G.B.	1,776	7	7,952.73	436,242	408	89	1.62	1.8
Hagersville	Nia.	1,246	75	4,597.80	216,781	300	61	1.30	2.1
Harriston	Nia.	1,274	167	6,175.18	217,976	311	59	1.67	2.8
Harrow	Nia.	P.V.	267	7,619.44	508,621	231	192	2.87	1.5
Havelock	E.O.	1,421	25	6,631.08	142,406	279	42	1.95	4.7
Hensall	Nia.	753	161	3,507.49	144,252	173	70	1.71	2.4
Highgate	Nia.	350	217	1,672.05	39,435	95	35	1.51	4.2
Holstein	G.B.	P.V.	34	1,148.10	10,485	50	18	1.95	10.9
Humberstone	Nia.	1,597	22	9,290.28	347,019	480	62	1.66	2.7
Jarvis	Nia.	471	81	1,648.37	38,745	93	37	1.58	4.3
Kemptville	E.O.	1,298	62	6,382.04	173,756	297	51	1.89	3.7
Kirkfield	G.B.	P.V.	35	803.38	16,374	26	52	2.57	4.9
Lakefield	E.O.	1,423	8	6,387.28	198,458	305	56	1.81	3.2
Lambeth	Nia.	P.V.	130	3,493.88	95,744	107	77	2.79	3.6
Lanark	E.O.	581	21	2,427.34	42,419	124	30	1.69	5.7
Lancaster	E.O.	560	25	2,017.16	25,971	73	30	2.33	7.7
La Salle	Nia.	628	248	9,300.58	343,578	198	145	3.93	2.7
London Twp.	Nia.	7,821	128	8,948.59	321,469	293	93	2.58	2.8
Lucan	Nia.	573	141	4,715.32	181,336	167	90	2.34	2.6
Lucknow	G.B.	1,147	68	6,507.52	141,468	256	46	2.10	4.6
Lynden	Nia.	P.V.	62	1,765.42	72,773	77	80	1.94	2.4
Madoc*	E.O.	1,067	25			267			
Markdale	G.B.	798	7	3,164.88	102,253	187	46	1.43	3.0
Markham	Nia.	969	114	5,617.46	153,382	252	52	1.89	3.7
Marmora	E.O.	1,023	20	3,458.11	64,240	188	29	1.55	5.4
Martintown	E.O.	P.V.	14	858.60	11,570	33	29	2.17	7.4
Maxville	E.O.	746	26	3,217.89	41,961	141	26	1.99	7.7
Merlin	Nia.	P.V.	219	2,032.80	42,955	102	35	1.68	4.7
Milton	Nia.	1,775	88	10,899.18	448,772	456	82	2.00	2.4
Milverton	Nia.	1,122	139	5,056.10	230,742	211	89	1.95	2.2
Mitchell	Nia.	1,645	135	9,755.00	450,361	445	85	1.84	2.2
Moorefield	Nia.	P.V.	168	690.99	13,921	44	25	1.23	5.0
Mt. Brydges	Nia.	P.V.	141	2,463.41	87,220	135	55	1.56	2.8
Mt. Forest	G.B.	1,823	38	6,918.18	292,810	422	60	1.41	2.4
Neustadt	G.B.	431	40	2,198.11	23,826	94	22	1.99	9.2
Newbury	Nia.	298	223	1,093.34	20,003	60	28	1.52	5.5
New Hamburg	Nia.	1,454	106	9,964.94	458,078	342	110	2.39	2.2
Niagara-on-the-Lake	Nia.	1,547	13	14,024.74	906,511	452	172	2.66	1.5

*6 months only with standard records.

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
1,025.42	39,044	31	105	2.76	2.6	987.58	1	38	111
5,432.12	271,645	89	300	6.00	2.0	7,845.45	12	321	509
4,472.92	257,474	106	202	3.52	1.7	27,059.41	15	1,675	421
3,783.85	117,405	97	104	3.34	3.2	6,261.41	12	248	420
4,149.56	140,742	76	161	4.74	2.9	3,675.80	4	175	311
1,888.80	41,176	57	64	2.91	4.6	5,891.94	3	174	339
1,816.45	54,804	54	82	2.70	3.3	2,743.74	13	111	240
812.20	29,043	35	69	1.93	2.8	1,953.46	5	63	135
595.67	5,991	17	29	2.92	9.9	307.72	1	8	68
2,805.14	144,480	73	172	3.34	1.9	6,638.05	7	216	560
1,300.07	49,046	37	112	2.97	2.7	4,113.93	4	149	134
3,921.06	117,785	82	123	4.08	3.3	4,400.85	7	162	386
876.77	20,822	19	96	4.06	4.2	285.48	1	20	46
4,774.91	117,642	80	126	5.10	4.1	2,759.85	7	143	392
1,612.35	58,219	19	255	7.07	2.7	314.65	1	15	127
1,239.79	26,690	36	64	2.99	4.6	120.69	2	5	162
2,284.94	29,978	41	62	4.76	7.6	1,408.74	1	24	115
3,177.73	121,274	30	348	9.91	2.6	2,507.78	3	69	231
1,566.17	53,871	13	345	10.04	2.9	1,505.25	3	49	309
1,757.01	52,409	47	97	3.25	3.4	1,754.78	9	78	223
3,252.83	60,892	84	60	3.23	5.3	4,049.51	5	107	345
736.95	35,519	18	156	3.23	2.1	916.65	1	49	96
		98					6		371
2,500.44	79,183	80	86	2.71	3.2	991.58	9	84	276
2,526.44	72,355	62	93	3.24	3.5	4,848.52	10	178	324
1,674.09	37,577	47	65	2.91	4.5	** 117.02	2		237
869.79	14,599	23	57	3.45	6.0				56
2,076.38	31,238	48	55	3.68	6.6	308.59	2	6	191
1,268.33	31,841	39	67	2.68	4.0	4,195.80	4	133	145
5,224.28	199,255	98	166	4.35	2.6	29,835.26	20	1,151	574
2,560.57	95,681	73	91	2.42	2.7	4,972.38	8	252	292
4,657.69	208,609	112	154	3.43	2.2	5,408.51	22	281	579
728.14	11,513	32	33	2.09	6.3	1,323.32	2	48	78
984.39	20,566	35	49	2.34	4.8	883.04	3	29	173
5,373.71	07,280	196	104	2.70	2.6	5,612.39	12	157	630
1,321.60	19,637	27	62	4.16	6.7	95.65	2	3	123
865.75	16,439	28	49	2.58	5.3	621.46	2	31	90
4,006.12	152,119	91	142	3.75	2.7	4,567.02	12	225	445
2,980.00	161,995	75	182	3.36	1.8	2,640.59	10	92	537

**Broken period.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Nipigon.....	T.B.	P.V.	14	2,267.95	47,471	109	38	1.80	4.8
Norwich.....	Nia.	1,213	110	7,662.74	374,610	348	91	1.86	2.0
Norwood.....	E.O.	764	10	4,689.41	109,038	209	44	1.88	4.3
Oil Springs.....	Nia.	466	226	1,659.24	46,218	71	55	1.98	3.6
Omeme.....	E.O.	481	15	2,486.29	64,372	127	42	1.63	3.9
Otterville.....	Nia.	P.V.	115	2,095.67	73,799	108	57	1.62	2.8
Paisley.....	G.B.	700	56	3,603.90	48,515	173	24	1.76	7.4
Palmerston.....	Nia.	1,792	161	9,882.62	483,849	399	102	2.09	2.0
Parkhill.....	Nia.	959	157	4,882.37	125,965	224	48	1.85	3.9
Plattsville.....	Nia.	P.V.	96	2,149.30	40,528	85	39	2.08	5.3
Point Edward...	Nia.	1,378	209	5,849.83	206,748	289	59	1.67	2.8
Port Credit.....	Nia.	1,400	69	11,431.33	793,497	399	170	2.44	1.4
Port Dalhousie...	Nia.	1,656	21	12,914.43	789,238	575	115	1.89	1.6
Port Dover.....	Nia.	1,628	108	6,546.64	200,931	397	44	1.43	3.3
Port McNicol....	G.B.	831	21	2,848.72	78,967	161	41	1.48	3.6
Port Perry.....	G.B.	1,185	58	6,903.89	189,304	276	57	2.10	3.6
Port Rowan.....	Nia.	681	124	2,443.38	47,452	88	49	2.51	5.1
Port Stanley*....	Nia.	583	146	11,067.61	434,567	566	64	1.63	2.5
Priceville.....	G.B.	P.V.	12	596.42	5,571	30	17	1.78	10.7
Princeton.....	Nia.	P.V.	96	2,216.22	51,635	80	51	2.17	4.3
Queenston.....	Nia.	P.V.	7	2,720.12	124,022	66	157	3.43	2.2
Richmond.....	E.O.	362	19	1,561.11	27,617	44	58	3.25	5.7
Richmond Hill...	Nia.	1,170	103	6,180.30	253,370	317	65	1.58	2.4
Ridgetown.....	Nia.	1,983	211	9,993.51	437,026	540	68	1.55	2.3
Ripley.....	G.B.	423	69	2,771.35	39,293	108	31	2.22	7.1
Rockwood.....	Nia.	P.V.	87	2,831.95	121,251	139	73	1.70	2.3
Rodney.....	Nia.	752	163	3,037.96	97,259	188	43	1.33	3.1
Seaforth.....	E.O.	P.V.	58	2,533.07	35,769	103	29	2.05	7.1
St. Clair Beach...	Nia.	107	247	2,313.50	99,366	51	176	4.10	2.3
St. George.....	Nia.	P.V.	82	2,652.01	154,441	131	98	1.69	1.7
St. Jacobs.....	Nia.	P.V.	102	3,149.52	172,493	102	141	2.57	1.8
Scarboro Twp....	Nia.	17,105	87	77,958.80	3,574,661	3,904	76	1.65	2.2
Seaforth.....	Nia.	1,702	147	9,569.87	441,983	496	76	1.65	2.2
Shelburne.....	G.B.	1,135	31	5,633.22	186,429	287	53	1.61	3.0
Springfield.....	Nia.	393	151	1,617.62	48,479	92	44	1.48	3.3
Stamford Twp....	Nia.	6,790	2	51,366.64	3,088,190	1,550	170	2.83	1.7
Stayner.....	G.B.	968	53	3,788.69	152,586	221	57	1.42	2.5
Stirling†.....	E.O.	879	19	6,438.57	.....	265	.....	.....	.....
Stouffville.....	Nia.	1,053	110	6,075.07	185,315	301	51	1.68	3.3
Sunderland.....	G.B.	P.V.	44	1,974.68	34,902	103	29	1.65	5.7

*Summer consumers included. †Flat rate part of year.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
2,036.21	60,059	38	135	4.59	3.7	.....	.....	.....	147
2,697.69	104,568	84	103	2.66	2.6	2,315.38	7	111	439
2,546.90	50,740	65	64	3.22	5.0	2,036.31	4	78	278
983.27	29,101	30	73	2.48	3.4	7,831.10	30	214	131
1,171.33	29,296	41	63	2.50	4.0	294.13	6	19	174
1,564.55	46,794	40	95	3.18	3.3	675.83	3	25	151
2,585.66	59,725	61	91	3.92	4.3	1,269.65	4	39	238
5,586.33	259,600	102	205	4.41	2.2	6,225.14	8	244	509
2,785.94	77,825	74	86	3.10	3.6	1,516.59	5	70	303
953.21	22,359	25	75	3.18	4.3	757.09	1	15	111
1,782.84	57,838	39	118	3.62	3.1	19,891.18	14	810	342
4,824.69	245,923	73	244	4.79	2.0	1,667.87	5	82	477
2,010.72	88,863	50	151	3.42	2.3	4,014.48	8	205	633
4,619.04	142,649	132	89	2.89	3.2	4,695.05	13	193	542
544.20	16,006	22	53	1.81	3.4	71.28	1	2	184
1,699.60	51,936	72	60	1.97	3.3	4,725.28	13	157	361
1,766.00	27,350	33	70	4.53	6.5	102.76	1	3	122
3,240.09	84,040	76	93	3.60	3.9	4,200.56	14	149	656
323.71	3,362	9	31	3.00	9.6	.....	.....	.....	39
609.45	16,492	16	92	3.39	3.7	2,670.87	3	61	99
201.64	4,753	6	66	2.80	4.2	771.57	1	26	73
1,718.90	30,926	23	103	5.73	5.6	.....	.....	.....	67
3,202.72	150,589	64	206	4.38	2.1	2,620.11	12	104	393
4,994.09	217,034	154	127	2.93	2.3	6,450.25	22	348	716
2,194.46	33,274	46	60	3.97	6.6	.....	.....	.....	154
1,107.25	44,816	32	120	2.98	2.5	378.35	1	11	172
2,343.06	78,665	75	90	2.67	3.0	1,592.46	5	89	268
1,465.83	20,481	33	52	3.70	7.2	285.79	1	11	137
1,485.45	44,952	9	468	15.47	3.3	606.62	2	19	62
805.88	34,159	33	89	2.10	2.4	2,188.99	3	84	167
1,163.93	40,668	25	136	3.88	2.9	3,102.75	6	117	133
17,696.22	850,392	323	326	4.71	2.1	23,155.96	33	582	4,260
5,588.05	226,811	120	156	3.85	2.5	4,843.71	12	225	628
3,654.14	115,614	91	104	3.27	3.2	1,601.93	9	96	387
819.46	21,783	34	52	1.95	3.7	3,320.70	4	122	130
7,920.05	460,632	100	366	6.29	1.7	5,878.59	12	222	1,662
2,527.82	92,355	74	104	2.85	2.7	2,741.96	11	151	306
4,567.45	.....	90	.....	.....	.....	2,447.84	8	.....	363
2,725.49	69,272	82	70	2.77	3.9	1,283.84	5	52	388
1,713.52	39,719	39	85	3.66	4.3	93.47	2	6	144

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr	\$ c.	cts.
Sutton.....	Nia.	833	114	6,810.04	143,236	363	33	1.59	4.8
Tara.....	G.B.	441	34	2,955.63	51,444	118	37	2.12	5.7
Tavistock.....	Nia.	965	129	6,679.85	356,538	252	120	2.24	1.9
Tecumseh.....	Nia.	2,260	246	15,159.54	589,305	483	101	2.59	2.6
Teeswater.....	G.B.	817	58	4,637.86	81,366	206	33	1.87	5.7
Thamesford.....	Nia.	P.V.	136	2,263.52	83,329	117	61	1.65	2.7
Thamesville.....	Nia.	886	207	4,461.28	183,266	212	73	1.77	2.4
Thedford.....	Nia.	535	268	2,643.90	48,076	128	31	1.72	5.5
Thorndale.....	Nia.	P.V.	136	1,370.46	33,769	68	40	1.63	4.1
Thornton.....	G.B.	P.V.	58	1,246.97	15,982	51	27	2.08	7.8
Tilbury.....	Nia.	1,886	209	6,313.64	245,187	414	50	1.28	2.6
Toronto Twp....	Nia.	8,047	67	50,586.57	2,940,048	1,667	151	2.58	1.7
Tottenham.....	G.B.	545	82	2,917.70	37,801	118	26	2.04	7.7
Trafalgar Twp., No. 1.....	Nia.	3,732	.....	13,047.09	511,266	250	177	4.54	2.5
Trafalgar Twp., No. 2*.....	Nia.	.....	.....	4,293.08	162,592	106	124	3.28	2.6
Uxbridge.....	G.B.	1,425	60	7,385.94	222,302	320	59	1.95	3.3
Victoria Harbour.	G.B.	1,104	17	2,531.03	77,941	155	43	1.40	3.3
Wardsville.....	Nia.	214	225	990.23	14,786	51	25	1.65	6.7
Warkworth.....	E.O.	P.V.	17	2,002.15	35,447	91	33	1.87	5.6
Waterdown.....	Nia.	874	57	5,229.77	226,114	214	88	2.05	2.3
Waterford.....	Nia.	1,097	94	7,050.32	426,410	309	114	1.88	1.7
Watford.....	Nia.	1,045	256	6,116.52	174,900	272	54	1.89	3.5
Waubashene....	G.B.	P.V.	12	1,933.71	67,244	118	49	1.40	2.8
Wellesley.....	Nia.	P.V.	111	2,668.92	88,463	120	62	1.87	3.0
Wellington.....	E.O.	912	22	4,313.87	138,509	265	44	1.37	3.1
West Lorne.....	Nia.	777	159	3,475.85	95,224	191	42	1.52	3.7
Wheatley.....	Nia.	698	279	4,339.02	114,834	184	53	2.02	3.8
Williamsburg....	E.O.	P.V.	28	1,378.31	46,972	55	71	2.09	2.9
Winchester.....	E.O.	1,004	38	5,670.68	268,554	273	82	1.74	2.1
Windermere†....	G.B.	123	22	826.01	.....	43	.....	.....	.....
Woodbridge.....	Nia.	727	85	5,219.93	252,076	232	94	1.95	2.1
Woodville.....	G.B.	405	40	1,950.65	50,228	100	43	1.68	3.9
Wyoming.....	Nia.	472	239	2,224.35	38,390	120	26	1.52	5.7
York, East, Twp.	Nia.	27,408	86	146,962.27	6,811,508	8,124	72	1.55	2.2
York, North, Twp	Nia.	10,332	84	74,114.72	2,917,968	2,216	119	3.02	2.5
Zurich.....	Nia.	P.V.	168	3,015.06	78,452	118	54	2.15	3.8

*Trafalgar Twp. Zone No. 2 population included in Zone No. 1.

†5 months' only.

"D"—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr	\$ c.	cents	\$ c.			
2,999.25	61,551	73	71	3.47	4.9	1,472.12	5	39	441
1,777.69	16,076	41	34	3.75	11.1	1,221.47	5	34	164
2,131.78	85,061	73	98	2.45	2.5	8,354.42	5	322	330
3,747.23	119,633	53	192	6.01	3.1	3,574.53	3	98	539
2,632.34	49,750	60	69	3.66	5.3	1,073.57	7	41	273
1,412.84	56,863	36	137	3.41	2.5	3,134.71	8	106	161
3,532.94	136,955	82	143	3.68	2.6	1,862.74	7	95	301
1,463.88	33,728	41	70	3.05	4.3	720.71	2	31	171
1,071.09	24,035	28	69	3.08	4.5	718.06	1	19	97
666.18	11,709	18	54	3.08	5.7	332.56	2	16	71
6,289.01	245,559	134	158	4.05	2.6	11,102.19	16	677	564
14,080.39	607,035	147	344	7.98	2.3	4,847.96	19	247	1,833
2,419.66	29,546	52	46	3.73	8.2	1,314.22	6	39	176
573.25	15,123	2	630	23.89	3.8	1,006.29	11	55	263
454.45	.....	15	.....	.....	.....	.....	.....	.....	121
3,506.17	94,058	99	82	3.04	3.7	1,278.03	13	69	432
942.92	28,326	27	87	2.91	3.3	152.43	2	6	184
1,187.44	23,269	26	75	3.81	5.1	.....	.....	.....	77
1,407.27	26,851	41	55	2.86	5.2	.....	.....	.....	132
838.64	49,860	27	154	2.59	1.7	2,214.27	6	110	247
1,888.41	115,345	71	141	2.31	1.6	4,313.32	11	226	391
3,321.00	80,000	81	83	3.46	4.2	2,547.32	5	73	358
529.47	18,646	18	86	2.45	2.8	284.36	4	16	140
837.36	30,081	34	81	2.25	2.8	2,371.72	4	82	158
1,947.34	63,900	61	87	2.66	3.0	3,222.39	8	112	334
1,853.39	52,408	54	70	2.49	3.5	7,647.25	5	291	250
2,751.71	73,277	62	103	3.85	3.8	1,587.20	4	63	250
474.11	13,642	19	61	2.08	3.5	190.28	1	15	75
2,883.71	122,169	65	159	3.75	2.4	993.73	3	35	341
447.40	.....	7	.....	.....	.....	.....	.....	.....	50
1,541.30	59,359	47	111	2.85	2.6	4,030.86	7	180	286
1,082.02	24,328	30	70	3.11	4.4	1,051.68	3	46	133
1,386.73	24,637	47	46	2.57	5.6	102.20	1	10	168
16,778.12	772,213	360	193	4.20	2.2	47,521.33	35	2,014	8,519
11,492.35	333,796	190	159	5.49	3.4	16,302.32	30	667	2,436
1,987.73	52,310	49	91	3.45	3.8	.....	.....	.....	167

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Urban Municipalities Served by the Hydro-Electric Power Commission for the Year 1930

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, which is an important factor in determining the rates to consumers, is also stated.

Cost of Power to Municipalities

The figures of the first column in the table represented the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

From the commencement of its operations, the Commission introduced in the municipalities which it serves, scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

*Except townships served as parts of rural power districts, for which consult latter part of Section III.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where the load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	32.28	33-66	60	2.2	1.1	0.83	10
Agincourt.....	36.63	33-66	50	4	2	1.11	10
Ailsa Craig.....	45.98	33-66	55	3.5	1.5	0.83	10
Alexandria.....	62.04	33-66	60	5	2	1.11	10
Alliston.....	54.92	33-66	40	5	2	1.67	10
Alvinston.....	88.38	33-66	60	6	2	2.22	10
Amherstburg.....	35.03	33-66	55	3	1.5	0.83	10
Ancaster twp.....	29.42	33-66	55	3	1.5	0.83	10
Apple Hill.....	54.65	33-66	60	6	2	1.66	10
Arkona.....	70.59	33-66	55	5	2	1.66	10
Arthur.....	69.96	33-66	40	6	2	1.67	10
Athens.....	54.75	33-66	30	8	2	3.05	10
Aylmer.....	32.21	33-66	60	2.4	1.2	0.83	10
Ayr.....	35.21	33-66	60	2.5	1.25	1.11	10
Baden.....	30.86	33-66	60	2.5	1.25	0.83	10
Barrie.....	31.52	33-66	60	2	1	0.83	10
Barton twp.....	27.82	33-66	55	3	1.5	1.11	10
Beachville.....	29.02	33-66	55	3	1.5	0.83	10
Beaverton.....	33.68	33-66	60	2.5	1.25	1.11	10
Beeton.....	66.65	33-66	35	7	2	1.67	10
Belle River.....	34.60	33-66	55	3.5	1.5	1.11	10
Belleville.....	29.90	33-66	60	3	1.5	0.83	10
Blenheim.....	37.37	33-66	60	2.5	1.25	0.83	10
Bloomfield.....	55.66	33-66	50	3	1.5	0.83	10
Blyth.....	54.17	33-66	50	4	2	1.66	10
Bolton.....	41.77	33-66	55	3	1.5	1.11	10
Bothwell.....	43.14	33-66	60	2.5	1.25	0.83	10
Bradford.....	64.08	33-66	35	5.5	2	1.67	10
Brampton.....	27.31	33-66	60	2	1	0.83	10
Brantford.....	25.84	33-66	60	2	1	0.83	10
Brantford twp.....	29.42	33-66	60	2.5	1.25	1.11	10
Brechin.....	52.93	33-66	45	5	2	1.67	10
Bridgeport.....	36.29	33-66	55	3	1.5	0.83	10
Brigden.....	66.89	33-66	60	4	2	1.38	10
Brighton.....	36.00	33-33	60	5.5	2	1.11	10
Brockville.....	30.76	33-66	50	2	1	0.83	10
Brussels.....	48.97	33-66	50	4	2	1.66	10
Burford.....	32.17	33-66	60	2.5	1.25	1.11	10
Burgessville.....	42.21	33-66	50	4	2	1.11	10
Caledonia.....	26.93	33-66	60	2.5	1.25	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

“E”

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33	min. 3.00	.....	10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
7.5	5	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	8	1	3.33	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.4	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.5	0.75	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	1.5	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.5	1	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1.5	0.83	10	24.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	3	1	0.83	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.5	0.75	0.83	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	5.5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
.....	†3.5	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
	††1.75											
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	0.75	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	5.5	2	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	.....	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Campbellville.....	54.19	33-66	40	6	2	2.22	10
Cannington.....	36.88	33-66	55	3	1.5	1.11	10
Cardinal.....	53.73	33-66	50	3.5	2	1.39	10
Carleton Place.....	32.32	33-66	50	4	2	0.83	10
Cayuga.....	45.29	33-66	45	5	2	1.66	10
Chatham.....	28.55	33-66	60	2.5	1.11	0.83	10
Chatsworth.....	45.61	33-66	40	5.5	2	1.67	10
Chesley.....	40.06	33-66	55	3	1.5	1.11	10
Chesterville.....	39.86	33-66	50	3	1.5	0.83	10
Chippawa.....	25.26	33-66	60	2.5	1.25	1.11	10
Clifford.....	55.67	33-66	50	4	2	1.66	10
Clinton.....	34.82	33-66	60	2.5	1.5	1.11	10
Coldwater.....	33.11	33-66	55	2.5	1.25	1.11	10
Collingwood.....	39.39	33-66	55	2.5	1	0.83	10
Comber.....	44.10	33-66	50	4	2	1.38	10
Cookstown.....	57.54	33-66	35	7	2	1.67	10
Cottam.....	40.16	33-66	50	4	2	1.66	10
Courtright.....	68.98	33-66	50	6	2	2.22	10
Creemore.....	51.53	33-66	55	3	1.5	0.83	10
Dashwood.....	46.20	33-66	45	5	2	1.38	10
Delaware.....	32.67	33-66	50	4	2	1.11	10
Dorchester.....	35.74	33-66	55	3	1.5	0.83	10
Drayton.....	52.29	33-66	55	3.5	1.5	1.11	10
Dresden.....	43.22	33-66	60	2.5	1.25	1.11	10
Drumbo.....	49.04	33-66	50	4	1.5	1.11	10
Dublin.....	57.89	33-66	50	5	2	1.67	10
Dundalk.....	34.86	33-66	55	3	1.5	1.11	10
Dundas.....	23.46	33-66	60	2	1	0.83	10
Dunnville.....	33.24	33-66	60	2.5	1.5	0.83	10
Durham.....	33.31	33-66	50	2.5	1.25	0.83	10
Dutton.....	34.28	33-66	60	2.4	1.2	0.83	10
East Windsor.....	29.11	33-66	60	2.5	1	0.83	10
East York twp.....	30.24	33-66	60	2.2	1.2	0.83	10
Elmira.....	29.76	33-66	60	2.5	1.25	0.83	10
Elmvale.....	37.58	33-66	55	3	1.5	0.83	10
Elmwood.....	45.98	33-33	45	5	2	1.39	10
Elora.....	37.13	33-66	55	3	1.5	1.11	10
Embro.....	46.19	33-66	50	4	2	1.67	10
Erieau.....	56.98	33-66	45	5	2	1.67	10
Erie Beach.....	62.22	33-66	50	6	2	1.94	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	6	1	2.22	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	3.5	1	1.94	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	.....	10
5	4	1	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	5.5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	min. 3.33	.....	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	4	1	1.66	10	43.00	1.00	4.7	3.1	0.33	min. 2.22	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	3	1	0.83	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	4	1	1.11	10	44.00	1.00	4.8	3.2	0.33	.....	.....	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	2.5	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.4	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	4	1	1.67	10	42.00	1.00	4.6	3	0.33	min. 2.22	.....	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	6	1	1.94	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Essex.....	32.31	33-66	55	3	1.25	0.83	10
Etobicoke twp.....	27.07	33-66	60	2.2	1.2	0.83	10
Exeter.....	34.17	33-66	55	3	1.5	0.83	10
Fergus.....	35.57	33-66	55	3	1.5	1.11	10
Finch.....	63.99	33-66	60	6	2	2.22	10
Flesherton.....	39.86	33-66	55	3.5	1.5	1.11	10
Fonthill.....	31.01	33-66	55	3	1.5	1.38	10
Forest.....	45.08	33-66	55	3.5	1.5	1.11	10
Forest Hill.....	.....	33-66	60	2.2	1.3	0.83	10
Fort William.....	22.51	33-66	50	2.5	1	0.83	10
Galt.....	25.94	33-66	60	2.5	1.25	0.83	10
Gamebridge.....	.....	33-66	45	5	2	1.67	10
Georgetown.....	34.76	33-66	60	2	1	0.83	10
Glencoe.....	56.18	33-66	55	3.5	2	1.11	10
Glen Williams.....	.....	33-66	60	3	1.5	0.83	10
Goderich.....	38.89	33-66	55	3	1.5	0.83	10
Grand Valley.....	53.62	33-66	45	5	2	1.39	10
Granton.....	46.92	33-66	55	3	1.5	1.11	10
Gravenhurst.....	20.91	33-66	60	2	1	0.83	10
Guelph.....	24.94	33-33	60	2	1	0.83	10
Hagersville.....	27.70	33-66	60	2	1	0.83	10
Hamilton.....	23.00	33-66	60	2	1	0.83	10
Hanover.....	33.94	33-66	55	3	1.5	0.83	10
Harriston.....	40.51	33-66	55	3	1.5	1.11	10
Harrow.....	33.75	33-66	55	3	1.5	0.83	10
Havelock.....	43.81	33-66	50	5	2	0.83	10
Hensall.....	42.15	33-66	55	3.5	1.5	1.11	10
Hespeler.....	27.73	33-66	60	2.5	1.25	0.83	10
Highgate.....	43.33	33-66	50	4	2	1.11	10
Holstein.....	89.18	33-66	60	9	5	1.67	10
Hornings Mills.....	.....	33-66	30	8	2	1.67	10
Humberstone.....	29.53	33-66	60	2.5	1.25	0.83	10
Huntsville.....	23.18	33-66	55	3	1.5	0.83	10
Ingersoll.....	26.06	33-66	60	2	1.2	0.83	10
Jarvis.....	34.12	33-66	50	4	2	1.11	10
Kemptville.....	37.25	33-66	45	4	2	0.83	10
Kincardine.....	54.75	33-33	40	4	2	1.39	10
Kingston.....	24.00-36.00	33-66	50	2	1.5	0.83	10
Kingsville.....	33.40	33-66	55	3	1.25	0.83	10
Kirkfield.....	49.44	33-66	40	6	2	2.22	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3	1.5	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	6	1	3.05	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
<hr/>												
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	0.75	1.38	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.4	0.5	max. 2.78	10
5	3	1	0.83	10	19.75	1.00	1.75	1	0.1	10
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5	2.5	0.6	0.83	10	20.00	1.00	1.6	1	0.33	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	10
5	2	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	10	10
5	3.5	1	1.11	10	48.00	1.00	5.4	3.6	0.33	10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33	10
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5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	10
5	5	1	1.39	10	50.00	1.00	5.7	3.8	0.33	10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
<hr/>												
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
.....	†3.5	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133	.....	10	10
	††1.75											
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	0.83	10	38.00	1.00	4	2.6	0.33	min. 2.22	.....	10
<hr/>												
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	.....	10
5	2.5	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	9	5	1.67	10	74.00	1.00	9.3	6.2	0.33	.....	.....	10
<hr/>												
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.6	1.7	0.33	.....	.....	10
5	3	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
<hr/>												
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2	1	0.83	10	20.00	1.00	1.5	1	0.33	.....	10	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	1	2.22	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Kitchener.....	25.58	33-66	60	2	1.2	0.83	10
Lakefield.....	38.72	33-33	50	3.5	2	0.83	10
Lambeth.....	37.81	33-66	50	4	2	1.38	10
Lanark.....	45.34	33-66	50	4.5	2	1.11	10
Lancaster.....	92.91	33-66	60	6	2	1.94	10
LaSalle.....	31.89	33-66	50	4	2	1.11	10
Leamington.....	34.42	33-66	55	3	1.25	0.83	10
Lindsay.....	38.88	33-66	50	3	2	0.83	10
Listowel.....	34.89	33-66	60	2.5	1.25	1.11	10
London.....	24.66	33-66	60	2	1	0.83	10
London twp.....	31.72	33-66	55	3	1.5	1.11	10
Lucan.....	32.97	33-66	55	3.5	1.5	1.11	10
Lucknow.....	60.71	33-66	45	4.5	2	1.67	10
Lynden.....	36.97	33-66	55	3	1.5	1.38	10
Madoc.....	53.62	33-66	50	4	2	0.83	10
Markdale.....	35.22	33-66	55	3	1.5	1.11	10
Markham.....	38.78	33-66	55	3.5	1.5	1.11	10
Marmora.....	45.11	33-66	60	5	2	1.11	10
Martintown.....	51.35	33-66	60	6	2	1.66	10
Maxville.....	66.93	33-66	60	7.2	2	1.66	10
Meaford.....	39.65	33-66	55	3	1.5	0.83	10
Merlin.....	39.88	33-66	50	4.5	2	1.11	10
Merritton.....	21.52	33-66	60	2	1	0.83	10
Midland.....	28.79	33-66	60	2	1	0.83	10
Milton.....	30.39	33-66	55	3	1.5	0.83	10
Milverton.....	33.89	33-66	60	2.5	1.25	1.11	10
Mimico.....	25.08	33-66	60	2.2	1.2	0.83	10
Mitchell.....	30.65	33-33	60	2.5	1.5	0.83	10
Moorefield.....	57.85	33-66	50	4	2	1.11	10
Mount Brydges.....	38.10	33-66	55	3	1.5	1.11	10
Mount Forest.....	39.38	33-66	60	2.25	1.25	0.83	10
Napanee.....	34.94	33-33	60	4.5	2	0.83	10
Neustadt.....	94.10	33-66	60	8	2	1.67	10
Newbury.....	53.79	33-66	45	5	2	1.38	10
New Hamburg.....	32.40	33-66	60	2.5	1.5	0.83	10
New Toronto.....	27.51	33-66	60	2	1.1	0.83	10
Niagara Falls.....	19.50	*3	.....	**2	1	0.83	10
Niagara-on-the-Lake.....	25.45	33-66	60	2.5	1.25	0.83	10
Nipigon twp.....	26.54	33-66	50	4	2	to 1.11 1.39	10
North York twp.....	30.29	33-66	55	3	1.5	1.11	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3.5	1	0.83	10	27.00	1.00	2.3	1.5	0.33	.....		10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	.....		10
5	4.5	1	1.38	10	60.00	1.00	7.2	4.8	0.33	.....		10
5	6	1	2.78	10	69.00	1.00	8.6	5.7	0.33	.....		10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....		10
5	3	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	4.5	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....		10
5	3	1.5	0.83	10	32.00	1.00	3.1	2.0	0.33	.....		10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	3.5	1	1.11	10	38.00	1.00	4	2.6	0.33	.....		10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....		10
5	7	1	2.22	10	65.00	1.00	8	5.3	0.33	.....		10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	4.5	1	1.11	10	37.00	1.00	3.8	2.5	0.33	min. 2.22		10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	max. 2.67 min. 2.06	10	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	3	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	2.2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	3	0.75	1.11	10	36.00	1.00	3.7	2.4	0.33	.....		10
5	2.25	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	4.5	2	0.83	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	8	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	.....		10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....		10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min. 2.00		10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Norwich.....	31.31	33-66	60	2.5	1.25	0.83	10
Norwood.....	36.87	33-66	50	5	2	1.11	10
Oil Springs.....	42.12	33-66	50	4	2	1.11	10
Omamee.....	.....	33-66	60	4	2	1.11	10
Orangeville.....	40.30	33-33	55	3	1.5	1.11	10
Oshawa.....	33.94	33-66	40	3.5	2	0.83	10
Ottawa.....	12.50	*3	.....	**2	1***	0.83	10
					0.5		
Otterville.....	38.53	33-66	55	3	1.5	1.11	10
Owen Sound.....	30.10	33-66	60	2	1	0.83	10
Paisley.....	52.34	33-66	45	5	2	1.67	10
Palmerston.....	37.38	33-66	60	2.5	1.25	1.11	10
Paris.....	26.96	33-66	60	2	1.25	0.83	10
Parkhill.....	56.34	33-66	50	4	2	1.38	10
Penetang.....	33.37	33-66	60	2	1	0.83	10
Perth.....	30.44	33-66	55	3	1.5	0.83	10
Peterboro.....	28.26	33-66	50	2.5	1.25	0.83	10
Petrolia.....	37.42	33-66	60	2.5	1.25	0.83	10
Pictou.....	43.24	33-66	60	2.5	1.25	0.83	10
Plattsville.....	61.71	33-66	45	5	2	1.66	10
Point Edward.....	36.37	33-66	55	3	1.5	0.83	10
Port Arthur.....	22.14	*3	.....	**2	1.	0.83	10
Port Colborne.....	29.30	33-66	60	2.5	1.25	0.83	10
Port Credit.....	29.48	33-66	60	2.2	1.2	0.83	10
Port Dalhousie.....	26.24	33-33	60	2.5	1.25	0.83	10
Port Dover.....	37.91	33-66	50	3	1.5	1.11	10
Port Hope.....	35.65	33-33	60	4.5	2	0.83	10
Port McNicoll.....	32.33	33-66	50	3.5	1.5	0.83	10
Port Perry.....	47.68	33-66	50	3.5	1.5	1.11	10
Port Rowan.....	69.94	33-33	60	6	2	1.66	10
Port Stanley.....	38.02	33-66	55	3	1.5	0.83	10
Prescott.....	29.93	33-66	60	2	1	0.83	10
Preston.....	25.76	33-66	60	2.5	1.25	0.83	10
Priceville.....	78.52	33-66	60	8	2	1.67	10
Princeton.....	56.87	33-66	50	3.5	2	1.66	10
Queenston.....	30.33	33-66	65	3	1.5	1.38	10
Richmond.....	49.76	33-66	30	8	2	2.22	10
Richmond Hill.....	35.66	33-66	60	2.5	1.25	0.83	10
Ridgetown.....	36.31	33-66	60	2.5	1.25	0.83	10
Ripley.....	81.50	33-66	50	7	2	1.67	10
Riverside.....	30.52	33-66	55	3	1.25	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

***Per kw-hr. for next 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 136 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33			10
5	5	1	1.11	10	40.00	1.00	4	2.6	0.33			10
5	4	1	1.11	10	34.00	1.00	3.4	2.2	0.33			10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33			10
5	3	1.5	1.11	10	32.00	1.00	3.1	2	0.33			10
5	3.5	1.5	0.83	10	23.00	1.00	2.1	1.4	0.33			10
†5	†2.2	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15		10	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33			10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	5	1	1.67	10	55.00	1.00	6.5	4.3	0.33			10
5	2.5	1	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33			10
5	2	1	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	†0.33		10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.22			10
5	2.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min. 2.00		10
5	3	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5	2	0.5	0.83	10	19.75	1.00	1.75	1	0.1			10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33			10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33			10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33			10
5	4.5	2	0.83	10	24.00	1.00	2.3	1.5	0.33		10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33			10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min. 1.11		10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33		25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33			10
5	3.5	1	1.66	10	42.00	1.00	4.6	3	0.33			10
5	3	1	1.38	10	25.00	1.00	2	1.3	0.33			10
5	8	1	2.77	10	60.00	1.00	7.2	4.8	0.33			10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33			10
5	2.5	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33			10
5	3	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33			10

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.

‡Next 260 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Rockwood.....	43.12	33-66	60	2.5	1.25	1.11	10
Rodney.....	43.06	33-66	55	3	1.5	0.83	10
Russell.....	61.78	33-66	60	6	2	1.66	10
St. Catharines.....	21.47	33-66	30 & 60	2	1	0.83	10
St. Clair Beach.....	33.85	33-66	55	3.5	1.5	1.66	10
St. George.....	35.73	33-66	60	2	1	0.83	10
St. Jacobs.....	29.80	33-66	60	2.5	1.25	1.11	10
St. Marys.....	33.12	33-66	60	2.5	1.25	1.11	10
St. Thomas.....	25.91	33-66	60	2	1	0.83	10
Sandwich.....	30.09	33-66	60	2.5	1	0.83	10
Sarnia.....	31.78	33-66	60	2.4	1.1	0.83	10
Scarboro twp.....	29.04	33-33	60	2.6	1.3	0.83	10
Seaforth.....	32.33	33-66	60	2.5	1.25	0.83	10
Shelburne.....	39.20	33-66	50	3	1.5	1.11	10
Simcoe.....	28.58	33-66	60	2	1.25	0.83	10
Smiths Falls.....	25.79	33-66	55	3	1.5	0.83	10
Springfield.....	42.35	33-66	55	3.5	1.5	1.11	10
Stamford twp.....	20.11	33-66	60	2	1.2	0.83	10
Stayner.....	41.03	33-66	55	2.5	1.25	0.83	10
Stirling.....	30.78	35	45	3	1.5	0.84	10
						1.75	
Stouffville.....	41.70	33-66	55	3.5	1.5	1.11	10
Stratford.....	27.61	33-66	60	2.1	1.25	0.83	10
Strathroy.....	30.89	33-66	60	2.5	1.25	0.83	10
Sunderland.....	50.38	33-66	45	5	2	1.39	10
Sutton.....	55.71	33-66	50	4.5	2	1.11	10
Tara.....	54.13	33-66	35	6	2	1.67	10
Tavistock.....	33.22	33-66	60	2.5	1.25	0.83	10
Tecumseh.....	32.63	33-66	55	3.5	1.5	1.11	10
Teeswater.....	57.99	33-66	60	5	2	1.67	10
Thamesford.....	37.01	33-66	60	2.5	1.5	1.11	10
Thamesville.....	38.13	33-66	55	3	1.25	0.83	10
Theford.....	65.58	33-66	50	5	2	1.38	10
Thorndale.....	63.07	33-66	50	4	2	1.38	10
Thornton.....	70.25	33-66	60	8	2	1.67	10
Thorold.....	22.91	33-66	60	2	1	0.83	10
Tilbury.....	34.79	33-66	60	2.5	1.25	0.83	10
Tillsonburg.....	30.88	33-66	60	2	1.2	0.83	10
Toronto.....	24.55	*3	.....	**2	1	0.83	10
Toronto twp.....	29.76	33-66	55	2.8	1.4	1.11	10
Tottenham.....	81.40	33-66	30	8	2	1.67	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	1	2.22	10	56.00	1.00	6.6	4.4	0.33	.....	.....	10
	†3.5	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	.....	25	10
	††1.75											
5	3.5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.4	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.6	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3.5	1	1.11	10	42.00	1.00	4.6	3	0.33	min. 2.22	.....	10
5	2.25	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	1.25	0.83	10	31.50	1.00	3	2	0.25	.....	.....	10
5	3.5	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.1	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5	1	1.39	10	52.00	1.00	6	4	0.33	.....	.....	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	6	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3.5	0.8	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.38	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	min. 3.33	.....	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.3	†0.33	.....	25	10
									0.295	.....	.....
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
						A.C. a	1.5	0.75	0.40	.....	.....	10
	\$4 & 2	1	0.83	10	.....	D.C. b	2.5	1.25	0.60	.....	.....	10
5	2.8	0.75	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10

†First 30 hours per kw-hr. ††Next 70 hours per kw-hr. ‡Next 260 hours per kw-hr.

§First 70 hours per kw-hr., 4 cents. Next 70 hours per kw-hr., 2 cents.

a A.C. Service charge \$1.25 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

b D.C. Service charge \$1.35 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1930, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Trafalgar twp., Area No. 1.....		55	60	3.5	2	1.11	10
Trafalgar twp., Area No. 2.....		80-1.10	55	3.5	2	1.67	10
Uxbridge.....	50.74	33-66	50	3.5	1.5	1.11	10
Victoria Harbour....	40.45	33-66	55	3	1.5	1.11	10
Walkerville.....	26.38	33-66	60	2.5	1	0.83	10
Wallaceburg.....	33.53	33-66	60	2.4	1.11	0.83	10
Wardsville.....	60.38	33-66	40	6	2	1.66	10
Warkworth.....	43.20	33-66	50	5	2	1.55	10
Waterdown.....	28.16	33-66	60	2.5	1.25	0.83	10
Waterford.....	30.63	33-66	60	2	1	0.83	10
Waterloo.....	26.02	33-66	60	2	1.25	0.83	10
Watford.....	50.06	33-66	50	4	2	1.11	10
Waubashene.....	41.80	33-66	55	2.5	1.25	1.11	10
Welland.....	21.85	33-66	60	2.2	1.1	0.83	10
Wellesley.....	41.67	33-66	50	3.5	1.5	1.11	10
Wellington.....	42.34	33-66	50	2.5	1.25	0.83	10
West Lorne.....	36.32	33-66	55	3	2	1.11	10
Weston.....	25.45	33-66	60	2	1	0.83	10
Wheatley.....	44.84	33-66	50	4	2	1.39	10
Whitby.....	33.51	33-66	60	3	1.25	0.94	20
Williamsburg.....	39.05	33-66	60	3	2	1.39	10
Windermere.....	88.47	33†	.....	8	2	2.22	10
Winchester.....	36.79	33-66	60	2.5	1.25	0.83	10
Windsor.....	26.25	33-66	60	2.5	1	0.83	10
Wingham.....	58.81	33-66	45	4	2	1.11	10
Woodbridge.....	31.88	33-66	60	2.5	1.25	0.83	10
Woodstock.....	24.67	33-66	60	2	1.2	0.83	10
Woodville.....	47.26	33-66	50	4	2	1.11	10
Wyoming.....	52.91	33-66	50	4.5	2	1.11	10
York twp.....	.....	33-66	60	2.22	1.3	0.83	10
Zurich.....	56.91	33-66	50	4	2	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

†According to consumers demand.

“E”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All-additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All-additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
	†8	1	1.11	10	37.00	1.00	3.5	2.3	1	.....	.....	10
10	††4	2	1.67	10	38.00	1.00	3.5	2.3	1.5	.....	.....	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	5	1	1.55	10	44.50	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.5	1	0.83	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.6	3	1	0.94	20	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	1.39	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2.5	1	0.83	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.2	0.75	0.83	10	25.00	1.00	2.0	1.4	0.5	max. 2.78	.....	10
5	4	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

APPENDIX I

ACTS

CHAPTER 12

An Act to amend The Power Commission Act

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1930.* Short title.
2. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat.,
c. 57,
amended.
 - 11a.—(1) An account to be known as the “Stabilization Fund Account” shall be opened and maintained on the books of the Commission and there shall annually be placed to the credit of such account,—
 - (a) an amount equal to ten cents per horse-power per annum on all electrical power or energy sold by the Commission in Ontario, such amount to be deducted from the revenues of the Commission,— What to
be credited.
 - (b) interest at such rates as the Commission shall deem equitable and just upon balances remaining from time to time to the credit of the account.
 - (2) Costs and expenses incurred by the Commission which in the opinion of the Commission are for the protection or advancement of the interests in the undertakings under its supervision or control and are not properly chargeable to any system or to any municipal corporation under contract with the Commission may be charged by the Commission to the Stabilization Fund Account. Costs and
expenses
which may
be charged to
account.
3. Section 14 of *The Power Commission Act* as amended by section 2 of *The Power Commission Act, 1928*, is amended by adding thereto the following subsection: Rev. Stat.,
c. 57, s. 14,
amended.
 - (1a) Notwithstanding anything in this Act, the Commission may in addition to the repayments out of sinking fund provided for under subsection 1 make further repayments on account of the advances by the Province to the Commission from time to time out of funds in its hands. Repayments
to Province
out of funds
in hands of
Commission.

Rev. Stat.,
c. 57, s. 20,
subs. 1,
amended.

To acquire
Dominion
Power and
Transmission
Company
Limited.

Works
in inter-
provincial
boundaries.

Acquiring
shares in
companies
operating
on such
boundaries.

Rev. Stat.,
c. 57, s. 20,
subs. 1,
amended.

Purchasing
shares in
companies.

Rev. Stat.,
c. 57, s. 20,
subs. 3
(1929, c. 20,
s. 4),
amended.

Judge's
powers on
inquiry as to
apportion-
ment of costs
of waterway
improve-
ment.

Rev. Stat.,
c. 111.

Rev. Stat.,
c. 57,
amended.

4. Subsection 1 of section 20 of *The Power Commission Act* is amended by inserting clause (aa) after clause (a) and by inserting clauses (bb) and (bbb) after clause (b):

(aa) Acquire by purchase the whole or any part of the property, assets and undertaking of Dominion Power and Transmission Company Limited, including shares held or owned by said company in any other company or companies of any kind or nature whatsoever, and to acquire the whole or any part of the properties, assets and undertakings of such other company or companies and to maintain and operate any property or properties so acquired.

(bb) Acquire by purchase, lease or otherwise, lands, waters, water privileges, water powers and works upon or adjacent to the boundary line between Ontario and any other province, and situate in Ontario, or in such other province, or partly in one and partly in the other of them, and erect, construct, maintain and operate upon any lands so acquired, works for the production and transmission of electrical power or energy, and enter into agreements with the Crown as representing such other province, or with any commission or department of the Government of such other province, or with any corporation or person interested in or affected by such works as to the terms and conditions upon which such works shall be carried on and any rights so acquired be exercised.

(bbb) Acquire by purchase in the open market or otherwise shares or stock of any company owning or controlling any such lands, waters, water privileges, water powers or works.

5. Subsection 1 of section 20 of *The Power Commission Act* is amended by inserting the following clause:

(gg) Acquire from time to time by purchase in the open market or otherwise, shares or stock in or the securities of any incorporated company carrying on the business of developing, distributing or transmitting electrical power or energy and for the purposes of this Act the acquisition of such shares, or stock, or securities shall be an investment in works.

6. Subsection 3 of section 20 of *The Power Commission Act* as re-enacted by section 4 of *The Power Commission Act, 1929*, is amended by adding thereto the following clause:

(a) The judge, upon an inquiry under this section, shall have the like powers as a judge sitting in court including the power to compel the attendance of witnesses, to hear evidence on oath and to require the production of books, papers, documents, matters and things and the order of the judge shall be enforceable in the manner provided by *The Judges' Orders Enforcement Act*.

7. *The Power Commission Act* is amended by adding thereto the following section:

- 43a. Where the Commission under an order of the Lieutenant-Governor in Council has been authorized to acquire lands or any other property, or to construct works for the purpose of developing, transmitting or distributing electrical power or energy
- Postpone-
ment of col-
lection of
costs and
charges for
works under
certain cir-
cumstances.

- (a) in territory without municipal organization, or
- (b) in territory within which the revenue from contracts entered into with municipal corporations and others is insufficient, at rates for power which the Commission deems reasonable, to meet operating expenses, costs of maintenance and to provide interest and sinking fund upon the cost of the works, or
- (c) in territory where the Commission has reported that it is advisable that works should be constructed or extended in anticipation of a future demand for power,

the Lieutenant-Governor in Council may authorize the Commission to postpone the collection of costs and charges payable in respect of electrical power or energy supplied under contracts entered into with the Commission or any part thereof, and to carry the whole or any part or parts of such costs and charges, with interest thereon, to a special suspense account for such period or periods as may be fixed by Order-in-Council, and after the expiration of such period or periods

- (a) to fix and determine the amount owing in respect of such costs and charges with accumulated interest thereon;
- (b) to charge such costs and charges, with accumulated interest thereon, or so much thereof as the Commission shall deem just and equitable, to the capital costs of the works;
- (c) to charge such costs and charges, with accumulated interest thereon, or so much thereof as the Commission may deem just, as cost of power supplied by the Commission;
- (d) If at any time the revenues received by the Commission from operation of the works shall be sufficient, at rates for power deemed reasonable by the Commission, to meet operating charges, costs of maintenance, interest and sinking fund, and provide a surplus—such surplus, or so much thereof as the Commission may deem proper, shall be applied in reduction of any sums added to the capital costs of the works as provided for in clause (b) above;

- (e) If the revenues from such works be insufficient to meet operating charges, costs of maintenance and interest and sinking fund on the costs of the works, any deficits so arising may, if the Commission shall so require, be charged and paid out of the stabilization fund account, but payment of any such amount out of the stabilization fund account shall in no way relieve any municipal corporation from its obligations under contract with the Commission and the works shall be and remain vested in the Commission until the amounts charged to the stabilization fund, with accumulated interest thereon, shall have been fully repaid in such fund.

Rev. Stat.,
c. 57,
amended.

8. *The Power Commission Act* is amended by adding thereto the following section:

Granting of
franchises
by municip-
alities
under con-
tract with
Commission
prohibited.

44a.—(1) Where a municipal corporation has heretofore entered into or hereafter enters into a contract with the Commission to take power, either at the time of entering into the contract or, at any time thereafter, exclusively from the Commission, the municipal corporation shall not grant to any corporation or person any right or franchise to erect or lay down poles, wires, conduits or any other structures or works for the distribution of electrical power or energy in the municipality, either for the use of the municipal corporation or the inhabitants generally, or of any particular person, and every such right or franchise and every agreement therefor granted or entered into with or without the assent of the electors shall be null and void.

Proceed-
ings for as-
certaining
rights where
franchise
claimed.

- (2) Where it is alleged that any individual or corporation has erected or laid down upon, over or under any street or other highway in a municipality, any poles, wires, conduits or other structures or works for the transmission or distribution of electrical power or energy without the consent of the municipal corporation lawfully given under a by-law of the council thereof, or is continuing to maintain or use any such structures or works upon, over or under any such street or highway without lawful authority, the Lieutenant-Governor in Council upon the complaint of the municipal corporation or of any ratepayer, or of the Commission, may direct an enquiry by the Railway and Municipal Board or by a commission composed of two judges of the Supreme Court, and the Board or commission may enquire into the matter, and if, as a result of the enquiry it is found that such structures or works are upon, over or under any street or highway without lawful authority, the Board or Commission may order the removal of all such poles, wires, conduits or other structures upon such notice and upon such terms and conditions as the Board or commission may deem just or reasonable, and an order made by a commission under this subsection may be filed with the Registrar of the Supreme Court

and shall have the same force and effect and be enforceable in the like manner as a judgment of the Supreme Court.

- (a) Any such structure or work shall be deemed to be upon, over or under any street or highway without lawful authority where no such right or franchise is found to have existed or where the term for which the right or franchise was originally granted has expired, or where such right or franchise was not granted by by-law in compliance with the statutes relating thereto, and no such right or franchise shall be deemed to have been acquired by lapse of time or by any express or implied acquiescence on the part of the municipal corporation or of any other municipal corporation, company or individual formerly owning or controlling such street or highway or the lands included therein.
- When work to be deemed unlawful upon the highway.

9. Section 56 of *The Power Commission Act* as re-enacted by section 3 of *The Power Commission Act, 1928*, is amended by adding thereto the following clause:

Rev. Stat., c. 57, s. 56, (1928, c. 19, s. 3), amended.

- (d) An amount equal to ten cents per horse-power per annum on all electrical power or energy sold by the Commission in Ontario, to be paid into the stabilization fund account provided for in section 11a.
- Cost of power to municipal.

10. Section 82 of *The Power Commission Act* is amended by adding thereto the following subsections:

Rev. Stat., c. 57, s. 82, amended.

- (2) Notwithstanding any thing in this Act contained, the Commission may from time to time—when in its opinion it is in the interests of the municipal corporations under contract with the Commission so to do—make orders fixing the rates to be charged by the corporation or commission of any municipality having a population of less than 200,000 for electrical power or energy supplied by the Commission.
- Powers as to fixing municipal rates.

- (3) In a municipality where the rates fixed by the Commission under subsection 2 above prove insufficient to provide for the costs of supplying electrical power or energy in such municipality, the Commission may charge the deficit to the stabilization fund account and may from time to time impose such terms as to repayment of the amount so charged together with interest thereon, or any part thereof, or may relieve the municipality from obligation to repay the same to such extent as to the Commission may seem just and equitable.
- Where amount collected proves insufficient.

11. Subsection 2 of section 97 of *The Power Commission Act* is amended by striking out the words "one hundred thousand" in the first line, and inserting in lieu thereof the words "sixty thousand," and by striking out the words "may, if the council of the city by by-law so declares" in the eighth line and inserting in lieu thereof the word "shall."

Rev. Stat., c. 57, s. 97, subs. 2, amended.

By-laws,
confirmed.

12. By-laws numbers 2915 and 2916 of the corporation of the city of Belleville; by-laws numbers 1948 and 1959 of the corporation of the city of Oshawa; by-law number 6581 of the corporation of the city of Ottawa; by-law number 2832 of the corporation of the city of Peterborough; by-law number 1806 of the corporation of the town of Lindsay; by-law number 1316 of the corporation of the town of Napanee; by-laws numbers 1409 and 1410 of the corporation of the town of Port Hope; by-laws numbers 790, 791, 796, 798 and 799 of the corporation of the town of Southampton; by-law number A 192 of the corporation of the village of Brighton; by-law number 676 of the corporation of the township of Adjala; by-law number 168 of the corporation of the township of Ameliasburg; by-laws numbers 1036 and 1042B of the corporation of the township of Bastard and Burgess South; by-law number 697 of the corporation of the united townships of Belmont and Methuen; by-law number 631 of the corporation of the township of Cartwright; by-law number 986 of the corporation of the township of Crosby South; by-law number 195 of the corporation of the township of Crowland; by-law number 588 of the corporation of the township of East Luther; by-law number 1038 of the corporation of the township of East Whitby; by-law number 1053 of the corporation of the township of East Zorra; by-law number 6 of 1929 of the corporation of the township of Egremont; by-law number 525 of the corporation of the township of Essa; by-law number 3342 of the corporation of the township of Etobicoke; by-law number 208 of the corporation of the township of Front of Escott; by-law number 859 of the corporation of the township of Front of Leeds and Lansdowne; by-law number 181 of the corporation of the township of Front of Yonge; by-law number 341 of the corporation of the township of Gosfield South; by-law number 5 of 1929 of the corporation of the township of Grey; by-law number 335 of the corporation of the township of Hibbert; by-law number 409 of the corporation of the township of Hillier; by-law number 3 of 1929 of the corporation of the township of Howick; by-law number 680 of the corporation of the township of Kitley; by-law number 95 of the corporation of the township of Lochiel; by-law number 116B of the corporation of the township of Loughborough; by-law number 1040 of the corporation of the township of Manvers; by-law number 8 of 1929 of the corporation of the township of McKillop; by-law number 688 of the corporation of the township of Medonte; by-law number 12 of 1929 of the corporation of the township of Morris; by-law number 341 of the corporation of the township of Morrison; by-law number 335 of the corporation of the township of North Walsingham; by-law number 1198 of the corporation of the township of Orillia; by-law number 10 of 1929 of the corporation of the township of Osnabrock; by-law number 351 of the corporation of the township of Oxford; by-law number 6 of 1929 of the corporation of the township of Pittsburgh; by-law number 728 of the corporation of the township of Plantagenet North; by-law number 138 of the corporation of the township of Plantagenet South; by-law number 12 of 1929 of the corporation of the township of Portland; by-laws numbers 843, 849 and 854 of the corporation of the township of Rear of Leeds and Lansdowne; by-law number 724 of the corporation of the township of

South Dumfries; by-law number 456 of the corporation of the township of South Grimsby; by-law number 6 of 1928 of the corporation of the township of Stanley; by-law number 1088 of the corporation of the township of Toronto; by-laws numbers 532 and 553 of the corporation of the township of Tossorontio; by-law number 130 of 1929 of the corporation of the township of Tuckersmith; by-law number 142 of the corporation of the township of West Ferris; by-law number 1124 of the corporation of the township of Yarmouth; and all debentures issued or to be issued or purporting to be issued under any of the said by-laws which authorize the issue of debentures are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature.

13. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

CHAPTER 13

An Act respecting The Central Ontario Power System

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario enacts as follows:

1. This Act may be cited as *The Central Ontario Power Act, 1930*. Short title.

2. All and every part of the property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses and other properties vested in His Majesty the King as representing the Province of Ontario, by an Act passed in the sixth year of His Majesty's reign, chaptered 18, and still so vested, together with any property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses and other properties, other than pulpwood limits in the township of Bruton, thereafter acquired by His Majesty the King in the right of the Province of Ontario or by The Hydro-Electric Power Commission of Ontario (hereinafter referred to as the "Commission"), in connection with or for the purpose of carrying on and administering such first-mentioned property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses (all of which are hereinafter referred to as "the properties") are hereby declared to be transferred to and vested in the Commission. Central Ontario Power System vested in Commission.

Transfer to date from 1st November, 1928.

Rev. Stat., c. 57.

Price to be paid for system.

Rev. Stat., c. 57.

Power to hold and operate or sell to municipalities.

Taking municipal debentures in payment.

Proceeds of sale,—application of.

Contracts for supply of power from Central System subject to Rev. Stat., c. 57.

Application of Rev. Stat., c. 57 as to advances by Province.

3. The properties declared to be vested in the Commission under section 2 shall be deemed for all purposes to have been acquired by the Commission on the 1st day of November, 1928, and thereafter such properties shall be deemed to have been and shall be held, operated, used and maintained by the Commission under the provisions of *The Power Commission Act* and of this Act.

4. There shall be chargeable to the Commission in the books of the Treasurer of Ontario the sum of \$15,173,235.21 as the purchase price of the said properties as of the 1st day of November, 1928, and the said sum, together with all advances on capital account thereafter made by the Province to the Commission in respect of the said properties, less repayments by the Commission to the Province in respect thereof, shall be a debt due from the Commission to the Province and shall be repayable under the terms of *The Power Commission Act* in the same manner and under the same conditions, both as to the principal indebtedness and as to interest, as other indebtedness of the Commission to the Province of Ontario.

5.—(1) The Commission may use and enjoy or exercise any of the said properties and may carry on any undertaking or business acquired under section 2, or may sell or dispose of any of them to a municipal corporation or to any company or individual as the Commission may deem most advantageous and the Commission is declared to have been so empowered as from 1st day of November, 1928.

(2) Where any sale has heretofore been, or is hereafter, made under the provisions of subsection 1 of this section to a municipal corporation, the Commission has been and is empowered to accept debentures of such corporation as payment in whole or in part therefor, and the Commission may hold and collect such debentures, or may invest the reserve funds of the Commission therein, or may sell or dispose of the same upon such terms as the Commission may see fit.

(3) Any sums realized by the Commission on the sale of any property made under subsection 1 or the sale of any debentures made under subsection 2, and any surplus funds in the hands of the Commission as at the 1st day of November, 1928, may be paid over by the Commission to the Treasurer of Ontario in reduction of the Commission's indebtedness mentioned in section 4.

6.—(1) Every contract heretofore entered into by the Commission with each of the municipal corporations mentioned in schedule "A" to this Act, for a supply of electrical power or energy to such corporation or to customers therein, shall as and from the 1st day of November, 1928, notwithstanding anything contained in any such contract, be deemed to have been and shall be subject to the provisions of *The Power Commission Act* and more particularly to section 56 thereof.

(2) All advances on capital account made by the Province of Ontario to the Commission in respect of the properties transferred to and vested in the Commission under the provisions of this Act from and after the said 1st day of November, 1928, and all expenditures made by the Commission thereout are declared to have been made under and in conformity with the provisions of *The Power Commission Act*.

7. The Lieutenant-Governor in Council may authorize the Commission to postpone the collection or setting apart of any sums on sinking fund account to provide for the cost of any of the properties acquired by the Commission under this Act, for such period not exceeding ten years as may be deemed advisable.

Postpone-
ment of sink-
ing fund
charges.

8. In addition to the rights, powers and privileges under *The Power Commission Act*, the Commission shall continue to have all the rights, powers and privileges in respect of the properties herein transferred which were granted to and vested in the Commission under the provisions of the said Order of the Lieutenant-Governor in Council, dated the 5th day of May, 1916, herein referred to.

Powers
under
order-in-
council of
May 5th,
1916,
preserved.

9. A copy of this Act shall be registered in the general register of any Registry or Land Titles Office in which is registered or recorded the title to any land affected by the terms of this Act, and every Registrar of Deeds or Master of Titles, as the case may be, shall, upon the request of the Commission, enter in the abstract index of any parcel or tract of land, the title to which is in any way affected by this Act, a note, entry or memorandum showing that the title thereof has been changed or affected by this Act and referring to the date and registration number in the general index where this Act has been recorded or registered as aforesaid.

Regis-
tration of
Act.

10. This Act shall come into force on the day upon which it receives the Royal Assent.

Commence-
ment of Act.

SCHEDULE "A."

CITIES

Belleville	Oshawa	Peterborough
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TOWNS

Lindsay	Napanee	Picton
Port Hope	Whitby	

VILLAGES

Bloomfield	Brighton	Havelock
Lakefield	Madoc	Marmora
Norwood	Stirling	Warkworth
Wellington		

TOWNSHIPS

Ameliasburg	Haldimand	Pickering
Alnwick	Hope	Percy
Asphodel	Hallowell	Rawdon
Belmont and Methuen	Hillier	Richmond
Brighton	Kingston	Sidney
Camden, East	Loughboro	Seymour
Caven	Manvers	Smith
Clarke	Murray	Thurlow
Darlington	Monaghan, North	Tyendenaga
Douro	Otonabee	Whitby
Ernestown	Portland	Whitby, East
Fredericksburg, North	Pittsburg	
Hamilton		

CHAPTER 14

An Act to provide for Granting Aid towards the
Installation of Electrical Works in Rural
Power Districts.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

- Short title. **1.** This Act may be cited as *The Rural Power District Loans Act, 1930.*
- Interpretation.
"Commission."
"Regulations."
- 2.** In this Act,—
 (a) "Commission" shall mean The Hydro-Electric Power Commission of Ontario.
 (b) "Regulations" shall mean regulations made under the authority of this Act.
- Fund of \$2,000,000 set apart to aid installation in rural power districts.
 Payments out of fund to Commission.
- 3.**—(1) The Lieutenant-Governor in Council may set apart out of the Consolidated Revenue Fund a sum not exceeding \$2,000,000 for the purpose of providing advances towards the installation of electrical services in rural power districts.
 (2) The Lieutenant-Governor in Council may from time to time direct that such payments be made to the Commission out of the moneys so set apart as the Commission may report to be necessary in order to enable advances to be made under this Act.
- What installation may include.
- (3)** Subject to the regulations the installation in respect of which aid may be granted under this Act shall include,—
 (a) wiring from the transmission or distribution lines of the Commission into and throughout dwellings, barns, outhouses and any other works which may from time to time be specified in regulations made under the authority of this Act;
 (b) such transformers, motors and other appliances as may be necessary or expedient for any industrial, agricultural or domestic purposes or which may be specified in the regulations.
- Application for advance.
- 4.**—(1) A person assessed as owner and being the actual owner of lands and premises in a rural power district desiring to procure an advance under this Act may make application, in the form prescribed by the regulations, to the Commission.
 (2) The application shall not be acted upon unless it is accompanied by the declaration of the applicant stating that he is the actual owner of the lands and premises mentioned in the application and that the same is free from encumbrance, or if the lands and premises, or any part thereof, are mortgaged or otherwise encumbered, stating the name and address of the mortgagee or encumbrancer, and where it has been assigned, the name of the assignee of the mortgage or encumbrance, with his address.
- Proofs to accompany application.

(3) Where it appears that there is a mortgage or encumbrance upon the lands or premises or any part thereof the application shall not be disposed of until two weeks after the mortgagee, encumbrancer or assignee has been notified of the application by registered letter sent to him by the secretary of the Commission to his last-known address.

Notice to
encum-
brancers.

5. An advance under this Act shall not exceed in amount the sum of \$1,000 in the case of any one owner, and every such advance shall be repayable with interest within twenty years at the furthest.

Limit of
amount of
advance.

6. Every installation in respect of which an advance is made under this Act shall be made in such manner and according to such specifications as the Commission may prescribe and the work of installation shall be subject to the approval of the Commission and no advance shall be made under this Act except upon the recommendation of the Commission.

Control as
to installa-
tion and
specifica-
tions.

7.—(1) Every advance made under this Act shall be a debt due from the owner of the lands and premises upon which the installation is made to the Commission and shall be repayable to the Commission at the time and in such manner as may be prescribed by the regulations, and the amounts so received by the Commission shall be transmitted to the Treasurer of Ontario.

Repayment
of advance.

(2) Where default is made in the repayment of any advance under this Act, or in any instalment thereof, or in the payment of interest thereon, the Commission may give notice in writing of such default to the clerk of the municipality in which the lands and premises are situate, and the amount in default shall thereupon be inserted in the collectors' roll as a tax in the same manner as in the case of municipal taxes, and when collected shall be paid over by the treasurer of the municipality to the Commission.

Collection
as taxes in
case of
default.

8.—(1) The Commission shall cause a notice of the advance, in the form prescribed by the regulations, to be registered in the proper registry or land titles office and such registration shall be notice to subsequent purchasers or mortgagees or other encumbrancers that the advance made under this Act is a lien or charge upon the lands and premises owned by the applicant.

Registration
of notice
of lien.

(2) Where notice has been registered under subsection 1 and the advance has been subsequently repaid, a certificate of repayment in the form prescribed by the regulations, may be delivered to the owner of the lands and premises and may be registered by him, and such registration shall have the effect of discharging the lien or charge.

Registration
of certificate
of
repayment.

(3) The fee for registering a notice or certificate of repayment under this section shall be fifty cents.

Fee.

9.—(1) The property in any works installed in respect of which an advance is made under this Act shall, while such advance remains unpaid, be in the Commission, and in addition to any other remedy, in case of default in repayment of the advance, or of any instalment thereof, or in the payment of interest thereon, the Commission may by its officers, servants and agents enter upon the premises and take possession of and remove transformers, motors or other appliances or fixtures forming part of such installation.

Property in
works to be
in Commis-
sion until
advance
repaid.

Priority over
lien note,
etc.

(2) A chattel mortgage, lien note or other instrument registered or filed, or any judgment or other legal process shall not have priority over the lien created by an advance from the Commission under this Act.

Regulations.

10. Subject to the provisions of this Act the Lieutenant-Governor in Council may make regulations prescribing the terms and conditions upon which advances may be made under this Act and generally for the better carrying out of the provisions of this Act.

Commence-
ment of Act.

11. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 15

An Act respecting Service Charges in Rural Power Districts.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Rural Power District Service Charge Act, 1930*.

Fixing
maximum
service
charge.

2. Notwithstanding anything contained in any statute or municipal by-law or contract the Lieutenant-Governor in Council, upon the recommendation of The Hydro-Electric Power Commission of Ontario, may from time to time fix a maximum service charge for any class of service rendered by the said Commission in a rural power district.

Where
deficit arises
under
maximum
service
charge.

3.—(1) Where such maximum service charge in the case of any rural power district is not sufficient to meet the necessary cost of the service as specified by the Commission, the deficit shall be chargeable to and payable out of the Consolidated Revenue Fund.

Recouping
Province
out of
subsequent
surplus.

(2) Payments made out of the Consolidated Revenue Fund under subsection 1 on account of any rural power district shall be charged to that rural power district in a special account to be known as the "Rural Power Service Suspense Account" in the books of the Treasurer of Ontario and any surplus thereafter arising from any maximum service charge in that rural power district shall be paid over to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished.

Maximum
service
charge to
remain in
force until
deficit paid.

(3) Where a deficit arises in any rural power district owing to the application of the maximum service charge under this section, the maximum service charge as fixed from time to time by the Lieutenant-Governor in Council shall remain in force and be charged in that rural power district until the deficit is extinguished.

Commence-
ment of Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent and shall have effect as from the 1st day of January, 1930.

CHAPTER 16

The Power Commission and Companies
Transfer Act, 1930.*Assented to 3rd April, 1930.*

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission and Companies Transfer Act, 1930.* Short title.

2. The agreement dated the 31st day of May, 1929, and the indenture dated the 29th day of June, 1929, between M. J. O'Brien, Limited, and The Hydro-Electric Power Commission of Ontario, are hereby confirmed and declared to be legal, valid and binding upon the parties thereto. Agreement and Indenture between M. J. O'Brien Limited, and Commission confirmed.

3. All and every part of the properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings agreed to be sold to the said Commission by the said agreement dated 31st day of May, 1929, or conveyed or purported to be conveyed to the said Commission by the said indenture dated the 29th day of June, 1929, shall be and shall be deemed to have been from the said 29th day of June, 1929, vested in and the property of the said Commission, free from all liens, charges and encumbrances save as provided in the said indenture dated the 29th day of June, 1929. Property conveyed by M. J. O'Brien Limited, to Commission vested in Commission.

4. The Commission is authorized and empowered to make with Wahnapiatae Power Company, Limited, a contract for the sale and transfer to the Commission of all the properties, rights, assets, franchises and undertakings of the said Wahnapiatae Company and of its subsidiary companies—Upper Wahnapiatae River Improvement Company, Limited, and The Wahnapiatae Boom and Timber Slide Company, Limited, and every such sale and transfer shall be legal, valid and binding upon the parties thereto and upon *cestuis que trustent* under the indenture of mortgage dated the 1st day of November, 1924, given by The Wahnapiatae Power Company, Limited, to Montreal Trust Company, to secure an issue of bonds of the said Wahnapiatae Company, and shall not constitute a breach of any covenant contained in such indenture of mortgage, nor cancel, annul or affect in any manner any contract entered into, or any franchise or right held by the said Wahnapiatae Company prior to such sale and transfer, but such sale and transfer shall be subject to the said indenture of mortgage and to the bonds secured thereby, and to all rights by such indenture of mortgage and bonds reserved. Commission authorized to contract with Wahnapiatae Company for transfer of assets.

Effect of
transfer.

5. Upon the execution and delivery of said agreement and transfer all the properties, rights, assets and franchises of the Wahnapiatae Power Company, Limited, Upper Wahnapiatae River Improvement Company, Limited, and The Wahnapiatae Boom and Timber Slide Company, Limited, shall be vested in and be the property of the Commission, subject to the said indenture of mortgage and to the bonds secured thereby, and to all rights by such indenture of mortgage and bonds reserved but otherwise free from all liens, charges and encumbrances, save as in the said contract for sale and transfer.

Commission
shall have
same power
to operate.

Rev. Stat.,
c. 57.

6. In addition to the powers, rights and privileges under *The Power Commission Act*, the Commission as from the respective date of transfer shall have and hold and may exercise, enforce and enjoy all the rights, powers and privileges in respect to the properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings transferred to and vested in the Commission and referred to in sections 3, 4 and 5 which the company owning or holding the said properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings had, held, exercised, enforced or enjoyed before such transfer to the said Commission.

Commence-
ment of Act.

7. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 17

An Act respecting The Sandwich, Windsor and Amherstburg Railway.

Assented to 3rd April, 1930.

Preamble.

WHEREAS pursuant to agreement dated 14th January, 1920, made between Detroit United Railway, of the first part, The Hydro-Electric Power Commission of Ontario, of the second part; Sandwich, Windsor and Amherstburg Railway, of the third part, and The Windsor and Tecumseh Electric Railway Company, of the fourth part, which agreement by virtue of *The Hydro-Electric Railway Act, 1920*, is legal, valid and binding upon the parties thereto, The Hydro-Electric Power Commission of Ontario has acquired all the assets, undertakings and property of every kind and nature of the said Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company; and whereas pursuant to and upon the terms and conditions more particularly set forth in an agreement dated 1st January, 1920, and amendments thereof, made between The Hydro-Electric Power Commission of Ontario and the municipal corporations of the township of Sandwich East, township of Sandwich West, city of East Windsor (formerly the town of Ford City), town of Walkerville, town of Sandwich, town of Ojibway, town of Amherstburg and city of Windsor, which agreement by virtue of *The Hydro-Electric Railway Act, 1920*, is legal, valid and binding upon the parties thereto, the said Commission has constructed and equipped

and is operating an electric railway which, as more particularly provided in said agreement, is vested in said Commission, on behalf of the said municipal corporations and certain other municipal corporations, namely, the town of Tecumseh and the town of Riverside, comprising territory formerly included in the township of Sandwich East, and the town of LaSalle, comprising territory formerly included in the township of Sandwich West, which additional municipal corporations have subsequently become parties to the said agreement; and whereas the property and assets comprising the said electric railway being operated by The Hydro-Electric Power Commission of Ontario as aforesaid consist of all the assets, undertaking and property of the said Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company acquired by The Hydro-Electric Power Commission of Ontario under said agreement dated 14th January, 1920, together with the improvements, additions and extensions thereof and thereto made by The Hydro-Electric Power Commission of Ontario pursuant to said agreement dated 1st January, 1920, and amendments thereof; and whereas pursuant to said agreement dated 1st January, 1920, and amendments thereof The Hydro-Electric Power Commission of Ontario has from time to time issued its bonds to an aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars (\$5,816,205) in the following respective amounts, bearing date, carrying interest, and maturing on the dates hereinafter mentioned, namely:

Principal amount of Bonds issued	Interest Rate	Date	Date Maturity
\$2,100,000.00	4½%	1st April, 1920	1st April, 1960
900,000.00	6%	1st July, 1921	1st July, 1961
966,205.00	5%	1st Sept. 1923	1st Sept. 1945
750,000.00	5%	1st July, 1925	1st July, 1945
100,000.00	5%	1st Sept., 1925	1st Sept., 1945
1,000,000.00	5%	15th July, 1926	15th July, 1946
<hr/>			
\$5,816,205.00			

and whereas the said bonds issued by the said Commission as aforesaid to said aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars (\$5,816,205) have been guaranteed as to the payment of both principal and interest by the Province of Ontario; and whereas the municipal corporations, parties to said agreement dated 1st January, 1920, and amendments thereof, pursuant to requests by the said Commission from time to time in respect of said bonds issued by said Commission have, in accordance with said agreement, issued and deposited with said Commission debentures of said corporations to the aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars (\$5,816,205), which debentures under said agreement are held by said Commission as collateral security for the payment of said bonds of the Commission to be disposed of in trust for the holders of said bonds;

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Sandwich, Windsor and Amherstburg Railway Act, 1930*.

Interpretation.

2. In this Act,—

"Corporations."

(a) "Corporations" shall mean the municipal corporations of the township of Sandwich East, township of Sandwich West, town of Walkerville, town of Sandwich, town of Ojibway, town of Amherstburg, town of Tecumseh, town of Riverside, town of La Salle, city of East Windsor (formerly the town of Ford City), and city of Windsor, and any additional municipal corporations which may from time to time become parties to the agreement between the corporations and the company referred to in section 7 of this Act; and "Corporation" shall mean one of the "Corporations";

"Railway."

(b) "Railway" or "Sandwich, Windsor and Amherstburg Railway" shall mean all the assets, undertakings and property of every kind and nature formerly belonging to the Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company, and acquired by The Hydro-Electric Power Commission of Ontario pursuant to said agreement dated 14th January, 1920, and now being operated by The Hydro-Electric Power Commission of Ontario on behalf of said corporations, and every improvement, addition and extension thereof and thereto heretofore or hereafter made;

"Commission."

(c) "Commission" shall mean The Hydro-Electric Power Commission of Ontario;

"Bonds of the Commission."

(d) "Bonds of the Commission" shall mean the bonds heretofore issued by the Commission as aforesaid in respect of the railway and which may be from time to time outstanding;

"Company."

(e) "Company" shall mean the Sandwich, Windsor and Amherstburg Railway Company created a body corporate under the provisions of this Act.

Incorporation and Constitution of Company.

3.—(a) There is hereby created and constituted a body corporate and politic under the name of the "Sandwich, Windsor and Amherstburg Railway Company," consisting of as many members as shall be appointed by the corporations. Each of the corporations may by by-law appoint one member who, subject to his removal by the corporation which appointed him, shall hold office for three years and until his successor is appointed. The member appointed by any corporation may at any time for any cause be removed from office by such corporation by by-law passed with the affirmative vote of two-thirds of all the members of the council of such corporation at a meeting specially called for considering such by-law. When and so often as a member of the company shall die, resign, be removed from office, or become unable to act, the council of the corporation which

appointed such member shall by by-law forthwith appoint his successor. Every member of the company shall be a resident of the municipality represented by him and in case any member shall cease to reside in such municipality he shall be unable to act as a member of the company. Any member of the council of any of the corporations shall be eligible for appointment as a member of the company. A majority of the members shall form a quorum for the transaction of business. The first meeting of the company may be called by the member appointed by the city of Windsor by written notice mailed to each of the other members five days before the date fixed for such meeting, and at such first meeting the company may appoint one of its members as chairman and another as vice-chairman.

(b) All expenses of administration of the company and all gratuities, salaries and other remuneration of the members and officers of the company may to such amount as shall be approved by the commission, be paid by the commission as part of the working expenditure of the railway. Expenses of administration.

4. The company may from time to time enact, make, alter, repeal, amend, vary and re-enact by-laws for the carrying on, management and regulation of the undertaking of the company, and for governing the proceedings of the company, the conduct of its members, the calling of meetings of the company, and generally such by-laws as the company may consider necessary or expedient in connection with the business and affairs of the company, and the company may from time to time appoint such officers and employees as the company may deem necessary for the proper conduct of the business of the company, and may prescribe their duties and fix their remuneration. By-laws.

5. Every by-law of the company shall be under the seal of the company and shall be signed by the chairman or by the person presiding at the meeting at which the by-law has been passed and by the secretary or assistant secretary of the company. Authentication of by-laws.

6. With the approval of the Lieutenant-Governor in Council and with the approval of a majority of the corporations, such last-mentioned approval to be evidenced by by-law, the company may acquire and the Commission on behalf of the corporations may grant and convey to the company the railway, subject, however, to the liabilities incurred by the Commission in connection with the acquisition, construction, equipment and operation of the railway and to the existing mortgage or charge in favour of the holders of the bonds of the Commission, and the payment of said liabilities and of the principal and interest of said bonds shall thenceforth be an obligation of the company and the company shall indemnify and save harmless the Commission against the same; provided always that all bonds of the Commission and all bonds issued by the company pursuant to this Act shall be equally charged upon and secured by the railway and every extension thereof and all lands and interests in lands, buildings, fixtures, improvements, stations, terminals, rolling stock, equipment, income, tolls, revenue, sources of money, rights, powers, privileges, franchises and all properties and assets of or belonging to the company Conveyance of railway to Company.

as a first mortgage or charge thereon. Upon the execution by The Hydro-Electric Power Commission of Ontario on behalf of the corporations and upon delivery to the company, of a grant and conveyance of the railway made or purporting to be made pursuant to this section, and upon the deposit of such grant and conveyance as hereinafter mentioned the railway shall be vested in the company free from all liens, charges and encumbrances whatsoever save and except the mortgage and charge aforesaid, and such grant and conveyance may be made in general terms and it shall not be necessary therein to particularly describe the property thereby granted and conveyed or to conform to or comply with the provisions of any law or statute relating to the transfer of real or personal property. It shall not be necessary to register or file such grant and conveyance under the provisions of any law respecting the registration, filing or recording of instruments affecting real or personal property but the same shall be deposited in the office of the Ontario Railway and Municipal Board, and thereupon the said grant and conveyance shall be legal, valid and binding upon the corporations and the Commission. A copy of such grant and conveyance may, however, be registered in the general register of the county of Essex and the registrar of deeds for the said county shall upon request enter in the abstract index of each parcel or tract of land the title to which is in any way affected by this Act, a note entry or memorandum showing that the title thereto has been changed or affected by this Act and referring to the date and registration number in the general register where the said grant and conveyance has been recorded or registered as aforesaid.

Effect of deposit of grant and conveyance with Railway Board.

7. Upon the deposit of said grant and conveyance in the office of the Ontario Railway and Municipal Board as aforesaid and upon the execution by the company of an agreement with the Commission in form set forth in schedule "A" to this Act with such variations, additions, alterations or amendments as may be approved by the Lieutenant-Governor in Council either before or after the execution thereof, the Commission shall cease to have any further obligations to the corporations under said agreement between the Commission and the corporations dated 1st January, 1920, and amendments thereof but the said agreement, subject as hereinafter mentioned, shall thereafter be effective as a valid and binding agreement between the corporations and the company as fully and effectually as though the company had been named as a party to and throughout said agreement and amendments in the place and stead of the Commission, provided, however, that for such purpose the said agreement shall be deemed to be amended as follows:

Amendments to Agreement of Jan. 1st, 1920.

(1) By striking out the words "The Hydro-Electric Power Commission of Ontario" and the "Commission" wherever the same appear throughout said agreement and any amendment thereto and substituting therefor the words "Sandwich, Windsor and Amherstburg Railway Company" and "Company" respectively.

(2) By substituting for the names of the municipal corporations who are parties of the second part to said agreement the names of the municipal corporations referred to in section 2 (a) of this Act.

(3) By striking out the recitals to the said agreement and substituting therefor the following:

"Whereas The Hydro-Electric Power Commission of Ontario on behalf of the corporations has constructed and equipped and is operating a system of electric railways (known as the Sandwich, Windsor and Amherstburg Railway and hereinafter referred to as the "Railway") over the routes laid down in schedule "A" hereto; and whereas all the assets and undertakings of said railway have been acquired from said Commission by the company subject to the payment by the company of all liabilities incurred by the Commission in connection with such construction, equipment and operation and to the payment by the company of the principal and interest of all bonds heretofore issued by said Commission in respect of said railway."

(4) By striking out subsections (a) and (b) of section 1 and substituting therefor the following:

"to equip, operate and maintain the railway over the routes laid down in schedule "A" and through the districts in which the corporations are situate."

(5) By striking out subsections (c), (g), (i), and (n) of said section 1.

(6) By striking out subsections (k) and (l) of said section 1 and substituting therefor the following:—

"To apply the revenue derived from the operation of the railway and any other revenue derived from the undertaking of the company to the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario for the railway and in respect of the bonds of the company to be issued for the railway, and the payment of all monies owing or payable to the trustee under the trust indentures securing said bonds of said Commission and of the company, in setting aside such sums as the company or The Hydro-Electric Power Commission of Ontario as agent for the company may deem desirable for reserves for working expenditure, obsolescence depreciation and contingencies and for the renewal of any works belonging in whole or in part to the undertaking, and to reimburse the company for and indemnify the company against any expenditure, liability or obligation which may be undertaken or incurred by the company under this agreement or when purporting to act under this agreement or by The Hydro-Electric Power Commission of Ontario when operating the railway as agent of the company under an agreement between the company and said Commission; and it is hereby agreed that the company or said Commission as agent for the company may apply said revenue for any or all of the purposes aforesaid in such amounts, with such preferences and priorities or without any preference or priority as the company or said Commission may in its sole discretion determine."

(7) By striking out subsections (*j*) and (*m*) of said section 1 and substituting therefor the following:

"When all bonds issued by The Hydro-Electric Power Commission of Ontario and the company in respect of the said railway and all other liabilities and indebtedness of the company have been paid in full, to sell or otherwise dispose of the railway in such manner and at such time and for such price as may be approved by a majority of the corporations and to divide the proceeds of the sale of such assets among the corporations in the proportion agreed upon between them or failing such agreement in the proportion fixed by The Hydro-Electric Power Commission of Ontario whose decision shall be final."

(8) By striking out the first three lines of section 2 and subsections (*a*) and (*b*) of section 2 and substituting the following:

"In consideration of the premises and of the agreements herein set forth the corporations and each of them agree with each other and with the Commission as follows:

(a) To issue and deposit their debentures with the company as provided by this agreement and to pay to the trustee for the holders of the bonds to be issued by the company and of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario in respect of the railway all monies which may be demanded by said trustee in accordance with the provisions of this agreement and to become directly jointly and severally liable for the payment of the principal, premium if any, and interest of and on all bonds issued by the company, and the corporations do hereby jointly and severally agree to pay said principal, premium if any, and interest as the same respectively fall due."

(9) By adding to subsection (*c*) of said section 2 the following:

"To take all means within their power to ensure to the company the exclusive right of furnishing transportation within the limits of the municipalities of the corporations and to pass and enforce such by-laws as they may legally pass to prevent the operation of busses, jitneys or vehicles or any other system of transportation which would compete with the transportation services furnished by the company."

(10) By striking out paragraph 3 of said agreement and substituting therefor the following:

"3.—(*a*) The company from time to time, subject to the provisions of this agreement, may issue bonds for such amount as the company may deem necessary to cover the capital cost of extensions, improvements and additional properties, works and equipment of any kind or any of them for use on or in connection with the railway; and the company from time to time upon such terms as it deems proper may sell, hypothecate, pledge or otherwise dispose of any bonds of the company issued under this agreement, but only after deposit with the company of the debentures of the corporations as provided in this agreement;

(b) Subject as hereinafter in this sub-clause (b) provided the company shall obtain the consent of a majority of the corporations (including always the corporation of the city of Windsor) before the issue of any bonds, such consent in each case to be in the form of a by-law passed by the council of the corporation for which the assent of the electors shall not be necessary, provided that where such bonds are being issued to cover capital cost within the limits of one municipality only the consent of the corporation of that municipality alone shall be necessary; and provided further that it shall not be necessary to obtain the consent of any of the corporations in respect to the issue of bonds from time to time up to an amount not exceeding ten per centum (10%) of the aggregate amount of the bonds of The Hydro-Electric Power Commission of Ontario heretofore issued in respect of the railway and of the bonds of the company issued with the consent of the corporations as above mentioned and outstanding from time to time;

(c) The bonds issued by the company from time to time under this agreement shall respectively bear such date, carry such rate of interest, be payable at such place or places and in such monies and upon such terms and conditions, and mature within such period not exceeding fifty (50) years from the date thereof as the company may determine; and all bonds of the company hereafter issued under this agreement and all bonds of The Hydro-Electric Power Commission of Ontario heretofore issued in respect of the railway shall be equally charged upon and secured by the railway and every extension thereof and all lands and interests in lands, buildings, fixtures, improvements, stations, terminals, rolling stock, equipment, income, tolls, revenue, sources of money, rights, powers, privileges, franchises, and all properties and assets of or belonging to the company as a first mortgage or charge thereon;

(d) In order to provide for the payment of any issue of bonds of the company, the company may in each year during the currency of such bonds commencing in such year as the company may determine, out of such monies of the company as may be available therefor, set aside and pay or cause to be set aside and paid annually as a sinking fund such sum as the company may deem desirable, and such sinking fund may be applied by or on behalf of the company from time to time in the purchase or redemption of bonds issued by the company at such time or times and in such manner and for such price or prices as the company may deem desirable; and the company shall have power at such times as it may deem expedient to issue further bonds to such amount as will realize the net sum required after the application of the accumulated sinking fund on hand available therefor to repay its outstanding bonds as the same respectively mature;

(e) In order to provide for the payment of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario in respect of the railway the company may in each year during the currency of such bonds commencing in such year as the company may determine, out of such monies of the company as may be available therefor, set aside and pay or cause to be set aside and paid such sum for sinking fund as the company may determine and such sinking fund payments may be held by a trustee for the said outstanding bonds of said Commission and shall be applied towards the repayment or retirement of the said bonds respectively or any renewal or refunding thereof at maturity and in the meantime may be invested in securities authorized for investment by trustees in the Province of Ontario or in call loans guaranteed by said trustee and the company shall have power at such times as it may deem expedient to issue further bonds to such amount as will realize the net sum required after the application of the accumulated sinking fund on hand available therefor to repay the said bonds as the same respectively mature.

(f) Upon the issue of further bonds by the company for the purpose of repaying, renewing or refunding any outstanding bonds of said Commission or of the company as provided in the foregoing subsections (d) and (e) of this section 3 all of the provisions of this agreement relating to the issue and deposit with the company and the disposal by the company of debentures of the corporations will apply as hereinafter more particularly provided.

(g) From time to time whenever the company shall authorize an issue of bonds as hereinbefore provided the corporations upon requisition in writing from the company approved by The Hydro-Electric Power Commission of Ontario shall issue and deposit with the company debentures to the respective amounts specified in the said requisition; the said debentures shall be for an aggregate principal amount of not less than one hundred and ten per centum (110%) of the principal amount of the bonds of the company to be issued as aforesaid; shall bear such date, shall carry interest payable half yearly at such rate, shall mature on such date and shall be payable as to both principal and interest in lawful money of Canada at Toronto, Ontario, and in such other currency or currencies and at such other place or places, if any, as the company in each case may specify in such requisition.

(h) Debentures issued by any municipal corporation or corporations pursuant to a request by the company, in respect of any extension, improvement, additional works or equipment required for the railway for which bonds of the company are issued or to be issued, may be held or disposed of by the company in trust exclusively for the holders of such bonds of the company and as security for the payment of such bonds of the company in respect of which such debentures have been issued and deposited in such manner and at such time or times and upon such terms

and conditions as the company in its sole discretion may determine and without limiting the generality of the foregoing the company as security for the repayment of the principal of said bonds, and the interest and premium, if any, thereon may execute, deliver and enter into any trust indenture or other document with a trust company or corporation as trustee for the holders of said bonds of the company containing such powers, terms and conditions and such provisions as to sinking fund, redemption or otherwise, and such protection to the trustee in the exercise of its duties thereunder and such security to said trustee for the payment of its fees, compensation and disbursements by way of lien on all monies, debentures and other property in its hands or otherwise, and such mortgage, charge and pledge (subject always to the rights of the holders of the outstanding bonds of the Commission as hereinbefore in sub-paragraph (c) of this paragraph 3 mentioned) as the company in its sole discretion shall deem to be in the best interests of the company and of the holders of said bonds, and may by said trust indenture or other document transfer, pledge, hypothecate, charge and mortgage the said debentures or any of them to said trustee for the exclusive benefit and security of the holders of the bonds of the company in respect of which said debentures have been issued and deposited with the company and may give said trustee such power to sell, dispose of or realize upon such debentures and the interest coupons attached thereto and such power to collect all monies payable by the corporations under this agreement, as the company in its sole discretion may deem advisable, and the company may by such trust indenture or other document, subject as aforesaid, mortgage and charge the railway and all the lands and interests in lands, buildings, fixtures, improvements, terminals, rolling stock, equipment, income, tolls, revenues, sources of monies, rights, powers, privileges, franchises and all other properties and assets present and future belonging to or connected with said railway. Said trust indenture when executed by the company shall be legal, valid and binding upon the company and upon each of the corporations.

(i) The debentures of the corporations to the aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars (\$5,816,205) which have heretofore been issued by the corporations and deposited with The Hydro-Electric Power Commission of Ontario from time to time pursuant to requests by said Commission in respect of bonds issued by said Commission for the railway, the payment of the principal and interest of which bonds has been assumed by the company and is guaranteed by the Province of Ontario, and which debentures are held by said Commission as collateral security for the payment of said bonds to be disposed of in trust for the holders of said bonds, shall be delivered to the company by said Commission and shall be held or disposed of by the company in such manner and at such time or times and upon such terms or conditions as the company, subject to the approval of the Commission

and the Lieutenant-Governor in Council, may determine, and without limiting the generality of the foregoing the company may for such purpose execute, deliver and enter into a trust indenture with a corporate trustee (who shall be the trustee for the holders of the bonds of the company) and may in such trust indenture as collateral security for the payment of the principal and interest of the said bonds of the Commission transfer, pledge, hypothecate, charge and mortgage the said debentures to said trustee for the benefit and security of the holders of the said bonds of the Commission, and may give said trustee such power to sell, dispose of or realize upon such debentures and the interest coupons attached thereto and to dispose of the proceeds of such sale, disposition or realization as the company in its discretion may determine and such power to collect all monies payable by the corporations under this agreement, and such trust indenture may contain such powers, terms, conditions and provisions, including provisions for payment of interest and sinking fund, and such protection to the trustee in the exercise of its duties thereunder and such security to said trustee for the payment of its fees, compensation and disbursements by way of lien on all monies, debentures and other property in its hands or otherwise, as the company may determine; provided that the disposition of or dealing with the said debentures as provided by said trust indenture shall not become effective until approved by the said Commission and the Lieutenant-Governor in Council, and such disposition or dealing with said debentures and such trust indenture, shall, when approved by the said Commission and the Lieutenant-Governor in Council, be valid and binding upon the company, and upon each of the corporations. Any such trust indenture may with the like approvals be cancelled, altered or amended.

(j) The by-laws of the municipal corporations authorizing the issue of the debentures to be deposited with the company as aforesaid shall in each case provide for the raising in each year during the currency of the debentures of the annual interest thereon and of a specific sum as a sinking fund which with the estimated interest thereon at a rate not exceeding four per centum (4%) per annum capitalized yearly will be sufficient to pay the principal of the said debentures at maturity; provided that the respective amounts for interest and sinking fund to be raised by such municipal corporations in any year by special rates under any such by-law may be reduced or increased as hereinafter provided but such reduction shall in no way impair the obligation or liability of such municipal corporations to pay in full the amount of the principal of such debentures and of the interest coupons attached thereto.

(k) At least thirty (30) days prior to the respective dates on which interest and/or sinking fund payments fall due in respect of the bonds of the Commission and/or of the company, The Hydro-Electric Power Commission of Ontario, operating the railway as the agent of the company under the agreement here-

inafter referred to, shall estimate and pay to the trustee or make arrangements satisfactory to the trustee for payment to the trustee of the amount of revenue, if any, from the operation of the railway which is available to be allocated to meet interest and sinking fund in respect of each issue of bonds made by the company and in respect of each issue of bonds heretofore made by the Commission in respect of the railway, and shall certify to the said trustee the amount remaining to be paid as hereinafter mentioned by each corporation for interest and/or sinking fund, such respective amounts to be determined from time to time by the Commission in its absolute discretion having regard to the service rendered by the railway to each corporation and the comparative benefits derived by each such corporation from the railway. The said estimate and certificate of the Commission shall be final and conclusive and binding upon the company and the corporations and shall not be open to question.

In the event that the Commission in any year shall have paid to the trustee the whole of the sinking fund and/or interest payments due in such year by the company to the trustee in respect of any issue of bonds of the company or of the Commission the corporations shall not be obliged to levy for that year any monies for sinking fund or interest under their by-laws authorizing the issue of debentures pledged to such trustee in respect of such bonds, but in the event that the Commission shall pay to the trustee for sinking fund and/or interest in any year any amount less than the whole amount of sinking fund and/or interest so payable such deficit shall forthwith on the demand of the trustee be paid to the trustee by the corporations in the respective amounts aforesaid, and pending the collection of the same by special rates the corporations may temporarily borrow the same from any bank, company or person on the credit of the corporation at large, and the respective amounts so payable shall be included by the respective corporations in their estimates for the current or next succeeding year and shall be raised and levied by each of said corporations by a special rate on all the rateable property in said respective municipalities rateable therefor and the monies so paid to said trustee for sinking fund shall be added to the sinking fund of the company and be applicable to the redemption of the bonds of the company and/or the Commission in respect of which the same has been paid and the monies so paid to the trustee for interest shall be made available by the trustee for the payment of the interest on the bonds of the company and/or the Commission respectively. Any monies payable as aforesaid by the said corporations to said trustee shall be debts due and owing by the respective corporations to said trustee and may be recovered by said trustee from each such corporation in any court of competent jurisdiction, together with interest at the rate of six per centum (6%) per annum from the date of such demand as aforesaid and the production by said trustee of such demands and proof of delivery thereof to the respective corporations shall be conclusive evidence of the

amount due and owing by the respective corporations to said trustee as a debt. In the event that any corporation shall fail to pay to the trustee the amount payable by it as aforesaid within fifteen (15) days after the date of such demand, the trustee may sell, realize on or otherwise dispose of a sufficient number of debentures and/or interest coupons of the defaulting corporation or corporations pledged to it to realize as nearly as may be the sum so in default and the surplus, if any, arising from the sale or realization of such debentures and/or interest coupons over and above the amount required to meet such sum in default may be added to the sinking fund or retained by the trustee to meet any subsequent default of such defaulting corporation or corporations. The corporation or corporations whose debentures have been so sold shall on demand by the trustee forthwith issue and deliver to the trustee new debentures of a like amount and payable upon the same terms as the debentures so sold, and the corporations are hereby authorized and required to pass all proper by-laws authorizing the issue and delivery of such new debentures.

(l) In addition to the annual deficits, if any, in respect of interest and/or sinking fund payable by the corporations to said trustee as provided in sub-paragraph (k) of this paragraph, the Commission shall certify to the trustee in each year the aggregate sum, if any, by which the revenue derived from the operation of the railway and any other revenue derived from the undertaking of the company is insufficient to meet in that year the operating expenses, working expenditure, reserves and other liabilities and obligations (other than for interest and sinking fund) to which the said revenue may be applied by the company as hereinbefore in this agreement provided, and the Commission shall also certify to the said trustee the respective amounts of such aggregate sum to be paid by each corporation, such respective amounts to be determined by the Commission and to be payable by the corporations to the trustee in the manner provided in sub-paragraph (k) of this paragraph. The certificates of the Commission herein provided for shall be final and conclusive and binding upon the company and the corporations and shall not be open to question. Such respective amounts when paid by the corporations to the trustee shall be paid by the trustee to the Commission.

(m) The trust indenture securing the bonds of the company may provide that the trustee may in each year release from the lien of the trust indenture and cancel and return to the respective corporations, municipal debentures (with all unmatured interest coupons attached) pledged to it in respect of any issue of bonds to an aggregate principal amount not exceeding the principal amount of such bonds of the company redeemed in such year out of sinking fund monies. The respective amounts of debentures of each corporation to be released and cancelled as aforesaid

shall be in the same proportion as nearly as may be as the proportion which the respective amounts of the debentures of each corporation pledged to the trustee in respect of such issue of bonds bear to the aggregate amount of municipal debentures pledged to the trustee in respect of such issue of bonds; provided that no release shall be made in respect of any fractional portion of any debenture; provided that no debentures will be returned to any municipal corporation which is in default in meeting any demand by the trustee.

(n) In the event that the security under a trust indenture securing bonds of the company shall have become enforceable, and the trustee thereof shall have determined or become bound to enforce the same, the trustee without the necessity of having recourse to any other security created by said trust indenture or otherwise may forthwith sell or otherwise dispose of any or all of the said debentures transferred, pledged, hypothecated, charged or mortgaged with or to it as aforesaid, in the manner and upon the conditions prescribed in said trust indenture, and the said debentures in the hands of the purchasers thereof shall be valid and binding upon the respective corporations and the ratepayers thereof and neither the validity of the by-laws authorizing the issue of such debentures nor the validity of any such debentures shall be open to question on any ground whatsoever.

(o) In the event that the said trustee shall enforce the security of said trust indenture as aforesaid and/or in the event the trustee shall sell or otherwise dispose of any or all of the debentures of the corporations mortgaged, hypothecated or pledged thereunder, the corporations shall in each year thereafter raise and levy the annual interest on such debentures and in lieu of the annual sinking fund levies provided for under the respective by-laws authorizing the issue of their debentures so disposed of shall raise and levy for sinking fund such amount as, with the estimated interest thereon at a rate not exceeding four per centum (4%) per annum, shall be sufficient to meet at maturity the debentures so sold or otherwise disposed of."

(11) By striking out paragraphs 4, 10, 11 and 16 of said agreement.

(12) By striking out paragraph 13 of said agreement and substituting therefor the following:

"Any dispute between the corporations arising under this agreement shall be referred for settlement to The Hydro-Electric Power Commission of Ontario and said Commission may upon application fix a time and place to hear all representations that may be made by the corporations and the Commission shall settle such dispute and such settlement shall be final. The said Commission shall have all the powers that may be conferred upon a Commissioner appointed under *The Act Respecting Enquiries Concerning Public Matters*."

(13) By striking out section 14 of said agreement and substituting therefor the following:

"This agreement shall continue and extend for a period of fifty (50) years from the date the same goes into effect and at the expiration thereof be subject to renewal with the consent of the corporations from time to time for like periods of fifty (50) years. At the expiration of this agreement The Hydro-Electric Power Commission of Ontario shall determine and adjust the respective rights and liabilities of the corporations as among themselves having regard to the amounts paid or indebtedness incurred by them respectively pursuant to this agreement and to such other considerations as may appear equitable to The Hydro-Electric Power Commission of Ontario and are approved by the Lieutenant-Governor in Council."

(14) By striking out section 15 and schedule "C" of said agreement and substituting therefor the following:

"It is understood and agreed that all sums to be raised, levied and collected by the corporations pursuant to this agreement shall be raised, levied and collected by the respective municipal corporations by special rates upon all the rateable property in the respective municipalities with the exception of the municipality of the corporation of the township of Sandwich West wherein said rates shall be levied upon all the rateable property in that section only of said Township lying between the Anderdon town limit and Windsor that is bounded on the east side by the Malden Road, Huron Line, and the Tecumseh Road and on the west side by the Detroit river including property fronting on both sides of the roads forming the said easterly boundary, but excluding thereout all the property lying within the boundaries of the municipality of the town of LaSalle; provided that the council of the township of Sandwich West may at any time by by-law define an area in said township other than that above described and may submit to a vote of the electors of such defined area in the manner prescribed by *The Municipal Act* a question as to the extension of the railway into such defined area, and if a majority of the electors vote in the affirmative, the railway, subject to the provisions of this agreement may be extended into such defined area, and in such case all sums to be raised, levied and collected by the township of Sandwich West under this agreement by reason of such extension into such defined area shall be raised, levied and collected by special rates upon all the rateable property in such defined area."

(15) By repealing section 3 of *The Hydro-Electric Railway Act, 1925*, in so far as the same applies to this agreement and the railway.

(16) By adding the following paragraphs to said agreement:

(a) The company may enter into an agreement with The Hydro-Electric Power Commission of Ontario providing for the management, extension, improvement, completion, equip-

ment, maintenance and operation of the railway as the agent of the company and for the performance by the Commission of any or all of the duties, or obligations to be performed by the company under this agreement other than the issue of the bonds of the company.

- (b) This agreement may be amended by the company and the corporations with the consent of the Lieutenant-Governor in Council and the corporations shall pass all such by-laws as may be necessary to authorize, confirm and carry out every such amendment; provided that no such amendment shall in any way lessen or impair the obligations of the corporations or any of them or of the company under this agreement in respect to bonds issued by the company during the currency of this agreement.
- (c) The company may assign the benefit of this agreement or any part thereof to the trustee for the holders of the bonds of the company and/or the said bonds of The Hydro-Electric Power Commission of Ontario.

8.—(1) Notwithstanding anything contained in this Act or in the agreement between the company and the corporations referred to in section 7 of this Act, the company, pending or in lieu of the permanent extension of the railway through any area in the municipality of any corporation, may with the approval of the Commission provide for a temporary transportation service by motor bus or busses over any route or routes within any defined area of any such municipality; and the company and the corporation of any such municipality, subject to the provisions hereinafter contained, may from time to time enter into an agreement or agreements in order to provide for such service and for the repayment to the company by such corporation of the deficits, if any, arising from time to time in connection with the provision and operation of such service.

Temporary
transporta-
tion service
by buses,
etc.

(2) The council of any corporation, upon petition signed by the owners representing at least one-half of the assessed value of the property in any area of the municipality or after a question for such purpose has been submitted and has received the assent of the electors in such area entitled to vote on money by-laws in the manner provided by *The Municipal Act*, shall have power by by-law to set aside a defined area for the purpose aforesaid and to authorize the execution of such agreement with the company and to provide that all such deficits, if any, payable to the company under such agreement shall be raised, levied and collected by a special rate on all the rateable property in such defined area.

Sectional
by-laws.

(3) The council of any corporation in any area in the municipality of which the Commission has heretofore provided a temporary transportation service by motor bus, may without such petition or the submission of such question set aside a defined area and authorize the execution of an agreement with the company for the purpose aforesaid and any deficits already existing in connection with any such service heretofore furnished by the Commission or hereafter arising in connec-

Sectional
by-law as to
bus service
already
established.

tion with such service hereafter furnished by the company, shall be paid by the corporation to the company on demand and shall be raised, levied and collected by such corporation by a special rate sufficient therefor on all the rateable property in such defined area.

Agreement
for operation
by Commis-
sion.

9. The company may enter into an agreement with the Commission and the Commission may enter into an agreement with the company in the form set forth in the schedule to this Act with such amendments as may from time to time be made therein by the company and the Commission, and the company and the Commission shall have full power to carry out their powers, duties and obligations under said agreement and any amendments thereof. The Commission with respect to the management and operation of the railway shall maintain separate and distinct books and accounts from the books and accounts of any other undertaking in which it is engaged, and all monies received by it in connection with such operation shall be kept in a separate bank account and shall not be merged with its funds derived from any other source.

Authority to
carry out
agreements.

10. The company and the corporations and each of them may exercise all the rights, powers and privileges and do all things necessary to carry out the terms of the agreement referred to in section 7 of this Act and for the purpose of said agreement the company shall have and may exercise all the powers, rights, immunities and privileges of a company incorporated by a special Act for the construction of a railway under *The Railway Act* so far as the same are applicable.

Powers of
Commission
when oper-
ating
railway.

11. The company and the Commission and each of them may exercise all the rights, powers and privileges conferred upon them by this Act and may do all things necessary to carry out the terms of the agreement between the company and the Commission referred to in section 9 of this Act and for the purpose of operating and carrying on the railway and of exercising any of the powers conferred on the company by this Act the Commission shall have and may exercise all the rights, powers and privileges of a company owning and operating a railway under *The Railway Act of Ontario* and all the rights, powers and privileges conferred upon the company by this Act, including the power to pass by-laws and regulations for and in the name of the company which may be passed by the company under section 29 of this Act, and all such by-laws and regulations passed by the Commission for and in the name of the company shall be as effective as if passed by the company itself; provided always that the Commission shall have no power to issue bonds, debentures, promissory notes or other securities or incur any financial obligation whereby the Commission becomes in any way liable, except as the agent of and in the name of the company, and all bonds, debentures, promissory notes and other securities required to be issued for the purpose of the said railway and all such financial obligations shall be issued and incurred by and in the name of the company; and the Commission shall act solely as the agent of the company and the Commission shall not be liable in any manner for any debt, liability or obligation in respect of the railway or anything done or undertaken by the Commission in relation thereto except to the extent of monies received by the Com-

mission as revenue from the operation of the railway or as representing other monies or other assets of the company or the corporations from time to time in its possession or control and available for such liabilities, and the company and the corporations jointly and severally shall be responsible for every such debt, liability or obligation and shall indemnify and save harmless the Commission therefrom and no action or other proceeding shall lie or be taken against the Commission in respect of any such debt, liability or obligation, but every such action may be taken against the company and the corporations or one or more of them.

12.—(a) For the purpose of supplementing the revenues of the railway in the hands of the Commission under the agreement referred to in section 9 of this Act and of providing the additional monies, if any, required by the company and/or the Commission for the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of the bonds of the Commission and the bonds of the company, the payment of all monies owing or payable to the trustee under the trust indentures securing said bonds of the Commission and of the company, for such reserves as the Commission may deem desirable to set aside for working expenditure, obsolescence, depreciation and contingencies and for the renewal of any works belonging in whole or in part to the undertaking and to reimburse the Commission for and to indemnify the Commission against any expenditure, liability or obligation undertaken or incurred by the Commission under said agreement or when purporting to act under said agreement, the company is hereby authorized to and shall issue and deliver to the Commission debentures of the company to the principal amount of five hundred thousand dollars (\$500,000) in the first instance and, from time to time, in such further principal amounts as may be demanded by the Commission; and the Commission from time to time in the name of and as agent for the company may borrow or raise such sums as the Commission may deem advisable for any of the purposes aforesaid and may deposit, pledge, hypothecate, charge, sell or otherwise deal with any of said debentures delivered to it by the company and receive the proceeds thereof and apply said proceeds for any of said purposes;

Authority
for issue of
bonds for
\$500,000
for working
capital.

(b) The said debentures of the company may bear such date, carry such rate of interest, be payable at such place or places and in such monies and be upon such terms and conditions and mature within such period from the date thereof as the Commission may from time to time require;

(c) Notwithstanding that the said debentures may purport to be obligations of the company only the said debentures shall be direct joint and several obligations of the corporations and each of the corporations shall be jointly and severally liable for the payment thereof and the interest thereon and for every indebtedness created by or in connection with the said debentures, and the amount for which the corporations are liable hereunder shall be a debt due from such corporations and each of them to the holder of any of the said debentures and upon default in payment of such debt the same may

be recovered by action at the suit of such holder in any court of competent jurisdiction;

(d) Subject as hereinafter in this subsection provided the Commission as the agent of and in the name of the company may declare that the said debentures are charged upon and secured by such assets of the railway in such manner and upon such terms and conditions and subject to such provisions as the Commission may deem advisable, but in relation to the said assets all said debentures shall be junior and subordinate to and rank after all bonds of the Commission and all bonds hereafter issued by the company pursuant to the agreement referred to in section 7 hereof;

(e) Debentures and debts which are by this section made obligations of the corporations shall not be included in ascertaining the limits of the borrowing powers of the corporations as prescribed by *The Municipal Act* and the said debentures and debts shall be obligations of the corporations, notwithstanding the limitations prescribed by *The Municipal Act*.

Rev. Stat.,
c. 233.

(f) No person, bank, firm or corporation purchasing or lending money upon the security of the said debentures or any of them shall be bound to enquire into the authority for the issue of the said debentures or to see to the application of the proceeds thereof;

(g) All or any of the said debentures which may be pledged, hypothecated or charged as security for advances or loans and which are re-delivered to the Commission with or without payment, satisfaction, release or discharge in whole or in part of any such advances or loans may be re-pledged, re-hypothecated or re-charged, sold or otherwise disposed of as and when the Commission may think fit;

(h) Nothing in this section contained shall in any way limit the obligations of the corporations under subsections (k) and (l) of section 3 of the agreement between the company and the corporations referred to in section 7 of this Act.

Disposal of
property not
required.

13. With the approval of The Hydro-Electric Power Commission of Ontario and subject to the terms of any trust deed securing the bonds of the Commission and the bonds of the company, the company upon such terms as it deems proper may lease, sell or otherwise dispose of, free from any lien, charge, mortgage or encumbrance, any property, real or personal, which the Company may deem unnecessary for the purpose of the railway or any section or extension thereof, and the company shall use or dispose of the proceeds thereof only for the purposes of the railway in such expenditures or for reimbursing the company for such expenditures as are approved by The Hydro-Electric Power Commission of Ontario or shall invest the same in securities in which trustees may by the laws of the Province of Ontario invest trust funds or shall apply the same for the retirement of the bonds of the company or partly in one way and partly in any other or others.

Enforcing
obligations
of Commis-
sion.

14. Any or all obligations of the corporations as set forth in paragraph 3 of said agreement between the corporations and the company referred to in section 7 of this Act and in any amendment

or amendments of said paragraph 3 may be enforced directly against the corporations by the trustee under any trust indenture made by the company to secure the bonds of the Commission and/or the bonds of the company as fully and effectually as if said corporations were parties to said trust indentures and had covenanted and agreed with the trustee thereof to perform said obligations.

15. Notwithstanding anything contained in this Act or in said agreement between the company and the corporations and notwithstanding that the bonds of the company may be expressed on their face to be obligations of the company only, the obligations of the company as set forth in all bonds from time to time issued by the company and in any trust indenture or indentures securing the payment of said bonds shall, in addition, be direct joint and several obligations of the company and the corporations, and the corporations shall be directly jointly and severally liable to the holders of said bonds for the time being for the payment of the principal, premium, if any, and interest of and on all said bonds of the company as and when the same respectively fall due.

Joint and several liability of Corporations.

The bonds of the company shall be authorized investments for trustees in the Province of Ontario.

Guaranty of Province.

16. Nothing in this Act contained shall in any way affect or impair the obligation of the Province of Ontario as guarantor of the payment of the principal and interest of the bonds of the Commission.

Right of Corporations to contribution from others.

17. Notwithstanding the joint and several liability of the corporations under the provisions contained in sections 12 and 15 of this Act any corporation may, in respect of monies paid by such corporation in any year, recover contribution from the other corporations to such amount as shall be determined by The Hydro-Electric Power Commission of Ontario in its sole discretion. Any dispute between the corporations or any of them under this section may be settled by the Commission, whose decision shall be final.

18. The railway may from time to time be extended into any municipality adjacent to the municipalities the corporations of which are parties to said agreement between the corporations and the company, but only upon such terms and conditions as may be approved by the majority of the corporations and by The Hydro-Electric Power Commission of Ontario.

Extension of railway.

19. The provisions of *The Hydro-Electric Railway Act, 1929*, shall apply to the company and the railway as though the company had been named throughout said statute instead of the Commission.

Application of 1929, c. 55.

20. All bonds authorized to be issued by the company shall, unless otherwise specially authorized or provided, be sealed with the seal of the company, and shall be signed by the chairman or vice-chairman of the company and countersigned by the secretary or assistant secretary of the company holding office at the time of signing. The signature of the chairman or vice-chairman may be engraved, lithographed or otherwise mechanically reproduced on the bonds, and such engraved, lithographed or otherwise mechanically reproduced

Execution of bonds.

signature shall be deemed for all purposes the signature of such officer and shall be binding upon the company. Notwithstanding any change in any of the persons holding said offices between the time of actual signing and the certifying and delivery of the bonds and notwithstanding the chairman or vice-chairman or secretary or assistant secretary signing may not have held office at the date of said bonds or at the date of the certifying and delivery thereof the bonds so signed shall be valid and binding upon the company. Interest coupons attached to the bonds shall have engraved, lithographed or otherwise mechanically reproduced thereon the signatures of the chairman and secretary of the company, and such signatures shall for all purposes be deemed the signatures of such officers and shall be binding upon the company notwithstanding that the persons whose signatures may have been engraved, lithographed or mechanically reproduced are not at the date of the bonds or at the date of the certifying and delivery thereof the chairman and secretary respectively of the company.

Deposit of
trust inden-
ture with
Railway
Board.

21. Any trust indenture made by the company to secure any bonds of the company and/or the bonds of the Commission and creating a mortgage, charge, hypothecation, pledge or encumbrance of or upon the whole or any part of the property, assets and undertaking of the company, present or future, or both, shall be deposited in the office of the Ontario Railway and Municipal Board, of which deposit notice shall forthwith be given in the *Ontario Gazette*, and no such trust indenture and no affidavit or other document attached thereto or deposited therewith need be registered or filed under the provisions of any law respecting registration, filing or recording of instruments affecting real or personal property, and no such law shall apply to such trust indenture. A copy of any such trust indenture so deposited certified to be a true copy by the chairman or secretary of the company shall be *prima facie* evidence of the original without proof of the signature of such official.

Assent of
electors to
debenture
by-laws not
required.

22. It shall not be necessary to submit for the assent of the electors any by-law passed by the municipal council of any of the corporations to authorize the issue of debentures or for any other purpose whatever under this Act or any agreement herein referred to, and all such by-laws authorizing the issue of debentures and all debentures issued thereunder and the interest coupons attached thereto shall be legal, valid and binding upon said corporations respectively and the ratepayers thereof, and the validity thereof shall not be open to question in any court on any ground whatever, and no such debentures issued and debts contracted by any corporation shall be included in ascertaining the limits of the borrowing powers of said corporations as prescribed by *The Municipal Act*, and debentures may be issued and debts contracted by said corporations for the purposes aforesaid, notwithstanding the limitations prescribed by *The Municipal Act*.

Effect of
alteration in
municipal
boundaries.

23. In the event of any alteration of the boundaries of the municipalities of the corporations which are parties to said agreement between the corporations and the company referred to in section 7 hereof either by the subdivision, redivision, absorption or amalgama-

tion of said municipalities or any part thereof into new or existing corporations or by the annexation thereto of any additional territory or by the annexation thereof or any part thereof by any other municipal corporation, or in any other way whatsoever, the original corporations whose boundaries have been so altered shall remain parties to said agreement and the new corporations, if any, so formed shall upon their formation be parties to said agreement and be subject to all the provisions of this Act and of said agreement; and all of the ratepayers of the corporation the boundaries of the municipality of which have been enlarged by the annexation to it of the whole or any part of any other municipality shall be liable for the rates levied to meet the obligations of such corporation under said agreement and also the obligations of any other corporation the whole of which has been annexed to it; and any municipal corporation whose boundaries have been reduced and the ratepayers of such reduced municipality shall remain liable for the obligations of that corporation; but the respective liabilities of any new corporations so formed and of corporations whose boundaries have been so reduced or enlarged as between themselves shall be determined by The Hydro-Electric Power Commission of Ontario, whose decision shall be final and binding upon all the corporations, provided that nothing in this section contained shall entitle any corporation to a return of any debentures heretofore or hereafter issued and deposited by it with the Commission or the company.

24.—(1) Where land is required for any of the purposes for which land may be acquired or expropriated under *The Railway Act* the company in respect thereof shall have the powers and shall proceed in the manner provided by *The Public Works Act* where the Minister of Public Works takes land or property for the use of the Province of Ontario and the provisions of the said Act shall *mutatis mutandis* apply. Powers as to Company taking land. Rev. Stat., c. 52.

(2) Where compensation would be payable upon the exercise of any powers by the company under *The Railway Act*, the same shall be determined in the manner provided by *The Public Works Act*. How compensation determined.

25. Sections 65 to 68, sections 177 to 185, sections 187 to 201 inclusive, and clause (f) of section 260 of *The Railway Act* and any other sections of *The Railway Act* which are inconsistent with the provisions of this Act or of the agreement between the company and the corporations or the agreement between the company and the Commission shall not apply to the company or to the Commission or to the railway. Application of certain sections of Rev. Stat., c. 224.

26. The company shall in respect of the property vested in it be subject to assessment and taxation in the same manner and to the same extent only as if the said property were vested in the Commission. Assessment and taxation.

27. The fees and expenses incurred in and incidental to the creation and organization of the company and to the issue of the bonds of the company and to any procedure taken by the corporations and the company and the Commission pursuant to the provisions of this Act and of any agreements herein referred to, may be paid by the Com- Provision for payment of fees and expenses.

mission out of the proceeds of any bonds, debentures or other securities of the company or out of the revenue from the operation of the railway.

Actions for
negligence.

28. Every action brought for damages by reason of negligence in the operation of the railway shall be brought against the railway company and not against any of the corporations or the Commission and the railway company for the purposes of this section shall be deemed a municipal corporation and such action shall be brought and tried as if it were an action against a municipal corporation for damages in respect to injuries sustained by reason of the default of a corporation in keeping in repair a highway.

Regulation
and control
of taxi-cab
and bus
traffic.

29.—(1) Notwithstanding anything contained in *The Municipal Act* the Sandwich, Windsor and Amherstburg Railway Company from time to time may make by-laws and regulations which shall be in force in each of the municipalities from which a member is appointed to the said company for the following purposes:

- (a) Regulating or prohibiting the use of any street or any part of a street upon which the tracks of the railway are laid by any class of vehicles.
- (b) Fixing the places at which busses and other public vehicles and vehicles operating for hire may stop for the purpose of taking up or setting down passengers.
- (c) Prohibiting the crossing of tracks or travelling or stopping of such vehicles upon the tracks of the railway in any manner which shall obstruct or hinder the operation of the railway or which may endanger life or property.
- (d) Prescribing periods by day or night during which such vehicles shall not stop for the purpose of taking up or setting down passengers at any stated place.
- (e) Regulating or prohibiting the soliciting of passengers or cruising or loitering by the drivers of such vehicles upon any street.
- (f) Fixing the place and length of time where and during which any such vehicle may stand in any particular street.
- (g) For imposing penalties for the violation of any such by-law or regulation, not exceeding, exclusive of costs, the sum of fifty dollars (\$50) for each offence.

Penalties,—
how recover-
able.
Rev. Stat.,
c. 121.

(2) The penalties imposed under or by any such by-laws shall be recoverable under *The Summary Convictions Act*, and shall be paid to the treasurer of the municipality in which the offence occurred.

Corporations
to be deemed
one city
corporation
for certain
purposes.

(3) Every such by-law and regulation shall have the same force and effect as if the municipalities from which members are appointed to the said company were one city corporation and the by-law or regulation had been passed by the commissioners of police or by the municipal council of the city, and in so far as any such by-law or regulation differs from the terms of any municipal by-law or regulation

in force at the same time the by-law or regulation passed under this section shall prevail; Provided, however, that all such by-laws shall be submitted to the Department of Public Highways for approval and shall not become operative until the Department shall have approved of same. ^{Proviso.}

30. This Act shall come into force on the day upon which it receives the Royal Assent. <sup>Commence-
ment of Act.</sup>

SCHEDULE "A."

Agreement dated the 1st day of March, A.D. 1930.

BETWEEN:

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY,
hereinafter called the "Company."

of the first part,

—and—

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,
hereinafter called the "Commission,"

of the second part.

Whereas the Company has been duly created and constituted under and in accordance with *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, 20 George V, Chapter 17;

And whereas the Company has acquired from the Commission the Sandwich, Windsor & Amherstburg Railway more particularly referred to in the said Statute subject to the liabilities incurred by the Commission in connection with the acquisition, construction, equipment and operation of the Railway and the existing mortgage or charge in favour of the holders of the Bonds heretofore issued by the Commission in respect of said Railway and the payment of said liabilities and of the principal of and the interest on the said Bonds has been assumed by the Company and is henceforth an obligation of the Company which has agreed to indemnify and save harmless the Commission against the same;

And whereas the particulars of the said Bonds heretofore issued by the Commission in respect of said Railway are as follows:

Principal amount of Bonds issued	Interest Rate	Date	Date of Maturity
\$2,100,000.00	4½%	1st April, 1920	1st April, 1960
900 000.00	6%	1st July, 1921	1st July, 1961
966,205.00	5%	1st Sept., 1923	1st Sept., 1945
750,000.00	5%	1st July, 1925	1st July, 1945
100,000.00	5%	1st Sept., 1925	1st Sept., 1945
1,000,000.00	5%	15th July, 1926	15th July, 1946

And whereas payment of the principal of and the interest on all of said Bonds has been guaranteed by the Province of Ontario;

And whereas all of said Bonds are now outstanding;

And whereas it is provided in said Statute that upon the execution of this Agreement an Agreement between the Company and certain Municipal Corporations referred to in said Statute shall come into force as provided in Section 7 of said Statute;

And whereas provision is made in said Agreement between the Company and said Municipal Corporations for the issue of Bonds by the Company under the provisions of a Trust Indenture to be entered into between the Company and a corporate Trustee and provision is also made for the Company entering into a Trust Indenture with a corporate Trustee for the purpose of securing the payment of said outstanding Bonds of the Commission;

And whereas it is provided in said Agreement that the Trustee in respect of the Bonds to be issued by the Company shall be the same as the Trustee in respect of said Bonds heretofore issued by the Commission:

Now therefore this indenture witnesseth that in consideration of the premises and for the considerations herein contained the parties hereto mutually covenant, promise and agree as follows:—

1. The Company hereby authorizes and appoints the Commission as the exclusive agent of the Company to manage, extend, complete, equip, maintain and operate the said Railway, and the Commission as such agent and subject to all the terms, conditions, provisoes and stipulations herein contained accepts the said appointment and agrees to efficiently perform its duties in connection therewith and to exercise all due skill and diligence so as to secure the most effective operation and service of the Railway; and the Commission as agent of the Company may have, enjoy, exercise and perform any and all the rights, powers, authorities, privileges, immunities, duties and obligations of the Company with respect to the Railway and the management, extension, completion, equipment, maintenance, operation, improvement, betterment and renewal thereof, and together with the right and power for and in the name of the Company to pass all By-laws which may be passed by the Company under Section 29 of the said *Sandwich, Windsor and Amherstburg Railway Act, 1930*, and the Company hereby delegates to the Commission the right and power to pass any and all such By-laws and Regulations.

2. The Commission shall be under no obligation whatever to commence or proceed with its duties hereunder or carry out any work under this Agreement unless the Company shall have first furnished the Commission with the monies estimated by the Commission from time to time to be necessary for such purpose, nor unless the Company shall have carried out and complied with all statutory requirements to be observed and performed by the Company, but the Commission shall be under no obligation to see to the observance or performance by the Company of said statutory requirements.

3. As part of the operation of the Railway, the Company authorizes the Commission:—

(a) To regulate and fix the fares and rates of toll to be collected by the Railway for all classes of service;

(b) To utilize the right-of-way and property of the Railway for all purposes from which it is possible to obtain a profit;

(c) Subject to the provisions of any Trust Indenture securing any Bonds issued by the Company, to combine the equipment, works and other property of the Railway with that used for power purposes by the Commission and for other railways operated by the Commission where such combination is in the opinion of the Commission feasible and may prove economical; and to apportion annually all charges respecting such equipment, works and other property in a fair manner having regard to the service furnished; provided that such apportionment may be by way of rental charges or otherwise; the apportionment of the Commission shall be final and binding;

(d) To permit and obtain interchange of traffic with other railways wherever possible and profitable.

4. The Company shall:—

(a) Furnish a free right-of-way for the Railway over any property of the Company and use its best endeavours to secure a free right-of-way for the Railway over the property of any of the Corporations upon request of the Commission and secure to the Commission free use of all land, property and other facilities available to the Company;

(b) Make no agreement or arrangement with and grant no franchise, license or inducement to any other railway or transportation company, body corporate or commission without the written consent of the Commission; and take all means within the power of the Company to ensure to the Commission the exclusive right of furnishing in any manner whatsoever local transportation within the boundaries of any of the Corporations;

(c) Keep, observe and perform the covenants, provisoes and conditions set forth in this Agreement intended to be kept, observed and performed by the Company, and execute such further and other documents and pass such By-laws and Resolutions as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this Agreement, and use its best endeavour to secure from the said Corporations such further and other documents and By-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this Agreement;

(d) Issue all bonds, debentures and other securities, collect and pay over all monies and generally do all acts and carry out all obligations required or imposed by this Agreement and by any Statute of Ontario relating to the said Railway.

5. The Commission shall receive all revenue derived from the operation of the Railway and any other revenue derived from the undertaking of the Company and to the extent that the same may be available, shall in each year apply said revenue to the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of said Bonds heretofore issued by the Commission for the Railway and in respect of the Bonds of the Company to be issued for the Railway, and the payment of all monies owing or payable to the Trustee under the Trust Indentures securing said Bonds of the Commission and of the Company, in setting aside such sums as the Commission may deem desirable for reserves for working expenditure, obsolescence, depreciation and contingencies, and for the renewal of any works belonging in whole or in part to the undertaking, and to reimburse the Commission and indemnify the Commission against any expenditure, liability or obligation which may be undertaken or incurred by the Commission when acting or purporting to act under this Agreement; and it is hereby agreed that the Commission may apply said revenue for any or all of the purposes aforesaid in such amounts, with such preferences and priorities, or without any preference or priority as the Commission in its sole discretion may determine.

6. At least thirty (30) days prior to the respective dates on which interest and/or sinking fund payments fall due in respect of each issue of said Bonds of the Commission and/or of the Company the Commission shall estimate and pay to or make arrangements satisfactory to the Trustee for payment to the Trustee under said Indentures securing said Bonds of the Commission and of the Company of the amount of revenue, if any, from the operation of the Railway which is available to be allocated to meet interest and sinking fund in respect of each said issue of Bonds made by the Company and in respect of each issue of Bonds heretofore made by the Commission in respect of the Railway, and shall certify to said Trustee the amount remaining to be paid by each Corporation for interest and/or sinking fund in the manner and with the effect more particularly provided for in the Agreement between the Company and the Corporations hereinbefore mentioned.

7. In addition to the annual deficits, if any, in respect of interest and/or sinking fund payable by the Corporations as provided in paragraph 6 of this Agreement the Commission shall certify to said Trustee in each year the aggregate sum, if any, by which the revenue derived by the Commission from the operation of the Railway and any other revenue derived by the Commission from the undertaking of the Company is insufficient to meet in that year the operating expenses, working expenditure, reserves and all other liabilities and obligations (other than for interest and sinking fund) to which the said revenue may be applied by the Commission as hereinbefore in this Agreement provided and the Commission shall also certify to the said Trustee the respective amounts of such aggregate sum to be paid by each Corporation in the manner and with the effect more particularly provided for in the Agreement between the Company and the Corporations hereinbefore mentioned.

8.—(a) For the purpose of supplementing the revenue of the Railway in the hands of the Commission under this Agreement and of providing additional monies, if any, required by the Company and for the Commission for the purposes mentioned in paragraph 5 of this Agreement, the Company shall forthwith issue and deliver to the Commission Debentures of the Company to the principal amount of Five Hundred Thousand Dollars (\$500,000) and from time to time will issue and deliver to the Commission Debentures of such further principal amounts as may be demanded by the Commission from time to time, and notwithstanding that the said Debentures may purport to be obligations of the Company only the said Debentures shall be made direct joint and several obligations of the Corporations who are parties to said Agreement between the Corporations and the Company, and each of said Corporations shall be jointly and severally liable for the payment of the principal of said Debentures and of the interest thereon and for every indebtedness created by or in connection with the said Debentures.

(b) The said Debentures of the Company shall bear such date, carry such rate of interest, be payable at such place or places and in such monies and be upon such terms and conditions, and mature within such period from the date thereof as the Commission shall from time to time require.

(c) The Commission from time to time in the name of and as agent for the Company may borrow or raise such sums as the Commission may deem advisable for any of the purposes aforesaid and may deposit, pledge, hypothecate, charge, sell or otherwise deal with any of said Debentures delivered to it by the Company and receive the proceeds thereof and apply the proceeds for any of said purposes.

(d) Subject as hereinafter in this sub-paragraph provided the Commission as the agent of and in the name of the Company may declare that the said Debentures are charged upon and secured by such assets of the Railway in such manner and upon such terms and conditions and subject to such provisions as the Commission may deem advisable, but in relation to the said assets all said Debentures shall be junior and subordinate to and rank after all said Bonds of the Commission and all Bonds issued or to be issued by the Company in respect of the Railway.

(e) All or any of the said Debentures which may be pledged, hypothecated or charged as security for advances or loans and which are re-delivered to the Commission with or without payment, satisfaction, release or discharge in whole or in part of any such advances or loans may be re-pledged, re-hypothecated or re-charged, sold or otherwise disposed of as and when the Commission may think fit.

(f) Nothing in this paragraph contained shall in any way limit any other obligation of the Corporations under said Agreement between the Company and the Corporations hereinbefore referred to.

9. If the Company should fail to perform any obligation under this Agreement or if any Municipal Corporations should fail to perform any obligation under the Sandwich, Windsor and Amherstburg Railway Act, 1930, or any amendment thereof or under the Agreement between the Company and the Corporations therein referred to the Commission in addition to all other remedies and without liability to either the Company or the Corporations or any of them may, with or without notice and in its absolute discretion, discontinue the service of the Railway in whole or in part and also terminate this Agreement and upon such termination the Commission shall have no further obligation under this Agreement; no such discontinuance of service shall relieve the Company or any Corporation from the performance of any obligation to be performed by them or any of them as in this Agreement or in said Statute, or any amendment thereto or said Agreement between the Company and the Corporations.

10. It is understood and agreed that whenever any Municipal or other work is carried out in any Municipality which in any way affects the Railway, but is not a portion of the Railway, no part of the cost of the same shall be charged against the revenue of the Railway, but that the said cost shall be paid by the Corporation or Corporations within the boundaries of the Municipalities of which the work is done and the said Corporation or Corporations shall indemnify and save harmless the Company and the Commission therefrom; excepting always in special cases of small matters where the Commission may be willing that such cost may be treated and paid as working expenditure.

11. If at any time the Commission deems it necessary for proper and efficient operation of the Railway to construct a connection or connections between the Railway and any other Railway operated by the Commission, the Commission may construct such connection and the cost thereof shall be apportioned by the Commission between the Railway and such other Railway operated by the Commission, and such apportionment may be by way of rental charges or otherwise; provided that the part of the cost apportioned to the Railway under this Agreement shall be met as the Commission may determine.

12.—(1) The Commission shall not be liable to the Company or the Corporations or otherwise in any way by reason of any error or omission in any reports, estimates, plans or specifications made for the Company or for any act or omission of the Commission in exercising or purporting to exercise the powers and authorities conferred upon it by this Agreement or otherwise.

(2) The Commission as regards all power and authorities conferred upon it by this Agreement shall have absolute and uncontrolled discretion as to the exercise thereof whether in relation to the manner or to the mode or to the time of such exercise and the Commission shall not be liable to the Company or to the Corporations in any way for its exercise of such discretion.

13. The Commission shall have the conduct and control of all claims and actions brought in respect of the Railway whether for alleged negligence arising out of the operation of the Railway or for any other matter or thing in connection with the Railway, and may defend or compromise, settle or dispose of the same as it deems expedient, and such defence, compromise, settlement or disposal shall be binding upon the Company and the Corporations.

14. The Commission shall not be obliged to undertake or continue any work or responsibility under this Agreement until the monies necessary therefor shall have been furnished by the Company to the Commission.

15. The Company as principal hereby agrees to indemnify and save harmless its agent, the Commission, from and against all liability, loss, damage, claim, demands, costs, charges and expenses in connection with the Railway and in connection with the performance by the Commission of its duties and powers under this Agreement.

16. The parties hereto or either of them may transfer and assign the benefits and advantages accruing under this Agreement to the Trustee under the Trust Indentures, or either of them, securing the Bonds of the Company and the Bonds heretofore issued by the Commission in respect of the Railway.

17. By way of compensation to the Commission for the performance of its obligations hereunder the Company agrees to pay to the Commission the cost to the Commission as determined by the Commission of all work done and services performed by it pursuant to this Agreement and the cost to the Commission as determined by the Commission in accordance with the Power Commission Act of supplying electrical power or energy for the purposes of the Railway, which power or energy the Commission is hereby exclusively authorized to supply, and the Commission may deduct such costs payable to it so far as the same may be available from the revenue derived from the operation of the Railway.

IN WITNESS WHEREOF the Commission and the Company have caused this Contract to be executed under their Corporate Seals and the hands of their proper officers duly authorized thereto.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,

.....
Chairman.

.....
Secretary.

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY,

.....
.....

CHAPTER 18

An Act respecting The Windsor, Essex and Lake Shore Rapid Railway Company.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Windsor, Essex and Lake Shore Rapid Railway Act, 1930.* Short title.

2. By-law number 850 of the township of Sandwich West; by-law number 1225 of the township of Sandwich East; by-law number 659 of the township of Sandwich South; by-law number 839 of the town of Essex; by-law number 695 of the township of Gosfield North; by-law number 339 of the township of Gosfield South; by-law number 692 of the town of Kingsville; by-law number 1366 of the town of Leamington, and by-law number 3938 of the city of Windsor, and all debentures issued or purporting to be issued under any of the said by-laws are confirmed and declared to be legal, valid and binding upon the said municipal corporations and the ratepayers thereof respectively, and shall not be open to question upon any ground whatsoever. Municipal by-laws confirmed.

3. The Mortgage Deed of Trust dated 1st February, 1929, between Windsor, Essex and Lake Shore Electric Railway Association and Guaranty Trust Company of Canada as trustee, made to authorize and secure the bonds of Windsor, Essex and Lake Shore Electric Mortgage deed of trust confirmed.

Railway Association, Limited, in the first instance to the amount of \$1,000,000 but subject to increase as therein mentioned, and all the terms and provisions therein contained are hereby declared to be valid and binding upon said association and upon the municipal corporations referred to therein, and any and all obligations of said municipal corporations to said association under *The Windsor, Essex and Lake Shore Rapid Railway Act, 1928*, and *The Windsor, Essex and Lake Shore Rapid Railway Act, 1929*, and the agreement between said municipal corporations and said association referred to in said mortgage deed of trust and the rights, powers, privileges and remedies conferred upon the association thereunder and which have been assigned, transferred to and vested in said trustee under said mortgage deed of trust may be enforced directly against said municipal corporations by said trustee as fully and effectually as if said municipal corporations were parties to said mortgage deed of trust and had covenanted and agreed with said trustee to perform all of said obligations in said Statutes and in said agreement on the part of said corporations to be observed and performed and upon any action or proceeding by said trustee to enforce any of said obligations none of said corporations shall be entitled to raise as a defence thereto any set off, claim or demand whatsoever which any of said corporations might have against said association.

Assessment
and
taxation.

4. The said association shall in respect of the property vested in it be subject to assessment and taxation to the same extent only as if the said property were vested in The Hydro-Electric Power Commission of Ontario.

1929,
c. 56, s. 8,
subs. 1,
amended.

5. Subsection 1 of section 8 of *The Windsor, Essex and Lake Shore Rapid Railway Act, 1929*, shall be amended by striking out the first word "The" in the first line thereof, and substituting therefor the words "All fees and," and is further amended by adding after the word "Association" in the second line thereof the words "and to the creation, issue and disposal of the bonds of the association, and to any proceedings taken by the corporations and the Commission pursuant to the provisions of this Act and of *The Windsor, Essex and Lake Shore Electric Railway Act, 1928*," and is further amended by adding at the end of the said subsection the following words, "or as part of the working expenditure of the railway," so that the subsection will now read as follows:

Provision
for fees and
expenses.

- (1) All fees and expenses incurred in and incidental to the creation and organization of the association and to the creation, issue and disposal of the bonds of the association and to any proceedings taken by the corporations and the Commission pursuant to the provisions of this Act and of *The Windsor, Essex and Lake Shore Electric Railway Act, 1928*, to such amount as shall be approved by the Commission may be paid by the Commission as part of the capital expenditure for the acquisition and rehabilitation of the railway, or as part of the working expenditure of the railway.

Commence-
ment of Act.

6. This Act shall come into force on the day upon which it receives the Royal Assent.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1930

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths and weights of conductors, and other particulars of the high-voltage steel-tower transmission lines, the wood-pole transmission lines—excepting 4,000 volts or less—and the telephone lines.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

The total mileage of lines built and acquired by the Commission up to October 31, 1930, for the various systems, excepting all lines operating at less than 4,000 volts, is indicated in the following table:

TOTAL MILEAGE OF TRANSMISSION LINES

System	Miles
Niagara system—220,000-volt, steel-supported transmission lines, 1st circuit.....	203.22
Niagara system—220,000-volt, steel-supported transmission lines, 2nd circuit.....	*202.91
Niagara system—110,000-volt, steel-supported transmission lines.....	728.71
Niagara system—110,000-volt, wood-supported transmission lines.....	68.75
Eastern Ontario system—110,000-volt, steel-supported transmission lines.....	52.93
Eastern Ontario system—110,000-volt, wood-supported transmission lines.....	61.58
Thunder Bay system—110,000-volt, steel-supported transmission lines.....	82.12
Thunder Bay system—110,000-volt, wood-supported transmission lines.....	82.75
Thunder Bay system—12,000-volt, wood-supported transmission lines.....	1.45
Georgian Bay system—110,000-volt, wood-supported transmission lines.....	55.83
Niagara system—90,000-volt, steel-supported transmission lines.....	65.72
Niagara system—60,000-volt, steel-supported transmission lines.....	54.07
Niagara system—60,000-volt, wood-supported transmission lines.....	17.12
Niagara system—46,000-volt, steel-supported transmission lines.....	28.98
Niagara System—46,000-volt, wood-supported transmission lines.....	21.54
Niagara system—30,000-volt, wood-supported transmission lines.....	22.00
Niagara system—26,400-volt, wood-supported transmission lines.....	549.05
Niagara system—13,200-volt, wood-supported transmission lines.....	446.61
Niagara system—12,000-volt, wood-supported transmission lines.....	179.61
D.P. & T. system—44,000-volt, steel-pole transmission lines.....	36.16
D.P. & T. system—44,000-volt, wood-pole transmission lines.....	155.30
D.P. & T. system—22,000-volt, wood-pole transmission lines.....	25.46
D.P. & T. system—22,000-volt, concrete-pole transmission lines.....	10.55
D.P. & T. system—13,000-volt, wood-pole transmission lines.....	2.30
D.P. & T. system—11,000-volt, wood-pole transmission lines.....	12.93
Georgian Bay system—(38,000-volt).....	56.58
Georgian Bay system—	
Severn district (22,000-volt).....	175.88
Eugenia district (22,000-volt).....	288.63
Wasdells district (22,000-volt).....	82.95
Muskoka district (38,000-volt and less).....	26.47
Eastern Ontario system—	
Central Ontario district (44,000-volt and less).....	509.59
St. Lawrence district (44,000-volt).....	120.02
Rideau district (26,400-volt).....	76.96
Madawaska district—(33,000-volt and less).....	70.26
Northern Ontario system—	
Nipissing district (22,000-volt).....	26.88
Sudbury district (22,000-volt).....	34.00
Total.....	4,635.87
Total separate wood-pole telephone lines for high-voltage systems.....	1,098.81

NOTE—Of the above the Niagara system is operated at 25 cycles. The other systems are operated at 60 cycles.

*Second circuit completed January 26, 1930.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS

Type of construction	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Under construction Oct. 31, 1930
High-voltage lines, 220,000 volts, Niagara system.....	945.72	272.67	270.00	5,113,508	1,474,326	1,459,890
High-voltage lines, 110,000 volts and less, Niagara system.....	5,040.78	3.51	21.48	15,541,918	12,035	90,146
High-voltage lines, 110,000 volts, Eastern Ontario system.....	351.42	.....	.....	1,390,773	.....	.....
High-voltage lines, 110,000 volts, Thunder Bay system.....	538.35	207.09	.....	1,344,406	577,367	.....
High-voltage lines, 110,000 volts, Georgian Bay system.....	.....	176.67	.....	.....	231,104	.....
Wood-pole lines built and acquired by the Commission.....	9,463.81	301.14	.....	9,898,710	377,911	.....
Telephone lines built and acquired by the Commission and erected on wood-pole lines carrying power conductors.	4,429.76	170.84	.....	1,069,087	36,664	.....
High-voltage telephone lines, Niagara system, 220,000 volts.....	421.00	.....	.....	81,833	.....	.....
High-voltage telephone lines, Niagara system.	3,497.96	.....	.....	965,403	.....	.....
High-voltage telephone lines Eastern Ontario system.....	227.86	.....	.....	79,358	.....	.....
High-voltage telephone lines, Thunder Bay system.....	201.10	.....	.....	71,770	.....	.....
High-voltage telephone lines, Georgian Bay system.....	.....	111.66	.....	.....	43,394	.....
Totals.....	25,117.76	1,243.58	291.48	35,556,766	2,752,801	1,550,036

NOTE—This table does not include lines operated at less than 4,000 volts.

NIAGARA SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
220,000-volt, steel-supported transmission lines.....	315.24	90.89	406.13

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
795,000 c.m., a.c.s-r.....	945.72	272.67	1,218.39

EASTERN ONTARIO SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines.....	52.93	52.93
110,000-volt, wood-supported transmission lines.....	61.58	61.58
Totals.....	114.51	114.51

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds	
	Completed to Oct. 31, 1929	Total to Oct. 31, 1930	Completed to Oct. 31, 1929	Total to Oct. 31, 1930
477,000 c.m., a.c.s-r.....	278.43	278.43	1,277,201	1,277,201
211,600 c.m., a.c.s-r. (4/0).....	72.99	72.99	113,572	113,572
Totals.....	351.42	351.42	1,390,773	1,390,773

NOTE—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel.

220,000-VOLT TRANSMISSION LINES**TOTAL NUMBER OF STEEL TOWERS**

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
220,000-volt towers.....	1,535	487	2,022

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines		
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
5,113,508	1,474,326	6,587,834	315.24	90.89	406.13

HIGH-VOLTAGE TRANSMISSION LINES**TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES**

	Completed to Oct. 31, 1929	Completed to Oct. 31, 1930
110,000-volt steel towers.....	294	294
110,000-volt wood poles.....	842	842
Totals.....	1,136	1,136

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines		Miles of double-circuit lines		Total miles single- and double-circuit lines Oct. 31, 1930
Completed to Oct. 31, 1929	Total to Oct. 31, 1930	Completed to Oct. 31, 1929	Total to Oct. 31, 1930	
87.55 24.33	87.55 24.33	2.63	2.63	90.18 24.33
111.88	111.88	2.63	2.63	114.51

NIAGARA SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines.....	715.93	12.78	728.71
110,000-volt, wood-supported transmission lines.....	68.23	0.52	68.75
90,000-volt, steel-supported transmission lines.....	65.72	.....	65.72
60,000-volt, steel-supported transmission lines.....	54.07	.....	54.07
60,000-volt, wood-supported transmission lines.....	17.12	.....	17.12
30,000-volt, and less, wood-supported transmission lines.....	21.77	0.23	22.00
Totals.....	942.84	13.53	956.37

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930
167,800 c.m., a.c.s-r.....	198.00	.....	.....	242,946	.....	.....
266,800 c.m., a.c.s-r.....	308.43	.....	.....	558,566	.....	.....
312,000 c.m., a.c.s-r.....	598.62	.....	.....	1,547,432	.....	.....
336,400 c.m., a.c.s-r.....	571.14	.....	.....	1,592,338	.....	.....
477,000 c.m., a.c.s-r.....	46.80	1.26	.....	157,950	4,252	.....
500,000 c.m., a.c.s-r.....	246.30	.....	.....	1,010,322	.....	.....
605,000 c.m., a.c.s-r.....	1,185.69	0.69	19.80	4,882,670	2,841	81,536
115,000 c.m., copper.....	22.47	.....	.....	41,996	.....	.....
190,000 c.m., copper.....	767.52	1.56	.....	2,431,503	4,942	.....
167,800 c.m., copper.....	616.86	.....	.....	1,679,709	.....	.....
211,600 c.m., copper.....	322.02	.....	.....	1,105,494	.....	.....
115,000 c.m., aluminum.....	0.57	.....	.....	327	.....	.....
211,600 c.m., aluminum.....	34.20	.....	.....	35,910	.....	.....
345,000 c.m., aluminum.....	79.50	.....	.....	130,141	.....	.....
500,000 c.m., aluminum.....	6.60	.....	.....	16,434	.....	.....
820,000 c.m., aluminum.....	36.06	.....	.....	108,180	.....	.....
1,033,500 c.m., aluminum.....	.....	.....	1.68	.....	.....	8,610
Totals.....	5,040.78	3.51	21.48	15,541,918	12,035	90,146

NOTE—a.c.s-r=Aluminum conductors, steel-reinforced. Weights include steel.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel towers.....	6,031	155	6,186
110,000-volt, wood poles.....	846	9	855
90,000-volt, steel towers.....	747	.....	747
60,000-volt, steel towers.....	769	.....	769
60,000-volt, wood poles.....	506	.....	506
30,000-volt and less, wood poles.....	1,003	10	1,013
Totals.....	9,902	174	10,076

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines				Miles of double-circuit lines				Miles of four-circuit lines				Total miles one, two and four-circuit lines
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930		Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930		Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930		Completed to Oct. 31, 1930
66.00		32.25	.....	.....		.....	.....	.....		66.00
38.31		87.82	.....	.....		.....	.....	.....		70.56
23.90		95.19	.....	.....		.....	.....	.....		111.72
.....	0.21	.....		.....	.....	.....		95.19
15.60		40.74	.....	.....		.....	.....	.....		15.81
0.62		192.11	.....	3.30		2.52	.....	.....		41.36
0.98	0.23	.....		.....	.....	.....		.....	.....	.....		195.84
7.49		125.55	.....	.....		.....	.....	.....		7.49
4.74	0.52	.....		102.81	.....	.....		.....	.....	.....		130.81
.....		53.67	.....	.....		.....	.....	.....		102.81
.....		53.67
0.19		5.70	.....	.....		.....	.....	.....		0.19
.....		13.25	.....	.....		.....	.....	.....		5.70
.....		1.10	.....	.....		.....	.....	.....		13.25
12.02		1.10
.....	0.56		.....	.....	.....		.....	.....	.....		12.02
169.85	0.75	0.56		750.19	0.21	3.30		2.52	.....	.....		923.52

THUNDER BAY SYSTEM
MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines.	81.89	0.23	82.12
110,000-volt, wood-supported transmission lines.	82.75	.....	82.75
12,000-volt, wood-supported transmission lines.	1.45	.....	1.45
Totals.	166.09	0.23	166.32

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930
336,400 c.m., a.c.s-r.	71.13	207.09	.....	198,310	577,367	.....
4/0 a.c.s-r (211,600 c.m.)	233.67	.....	.....	363,590	.....	.....
4/0 copper (211,600 c.m.)	218.40	.....	.....	749,767	.....	.....
2/0 copper (133,079 c.m.)	15.15	.....	.....	32,739	.....	.....
Totals.	538.35	207.09	.....	1,344,406	577,367	.....

NOTE—a.c.s-r.—Aluminum conductor, steel-reinforced. Weights include steel.

GEORGIAN BAY SYSTEM—
MILEAGE OF HIGH-VOLTAGE LINES

	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, wood-supported transmission lines.	55.83	55.83
Totals.	55.83	55.83

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor	
	Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930
3/0 a.c.s-r. (167,800 c.m.)	167.49	167.49
336,400 c.m., a.c.s-r.	9.18	9.18
Totals.	176.67	176.67

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt steel towers.....	533	6	539
110,000-volt wood poles.....	1,342	.....	1,342
12,000-volt wood poles.....	59	.....	59
Totals.....	1,934	6	1,940

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit conductors			Miles of double-circuit conductors			Total miles single- and double-circuit conductors
Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1930
15.31	68.34	.....	4.20	0.23	.....	88.08
77.89	.....	.....	.....	.....	.....	77.89
72.80	.....	.....	.....	.....	.....	72.80
5.05	.....	.....	.....	.....	.....	5.05
171.05	68.34	.....	4.20	0.23	.....	243.82

NOTE—a.c.s.r.—Aluminum conductor, steel-reinforced. Weights include steel.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt wood poles.....	548	548
Totals.....	548	548

WEIGHT OF POWER CONDUCTORS

Weight in pounds		Miles of single-circuit lines		Total miles single-circuit lines
Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930	Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930	Completed to Oct. 31, 1930
205,510	205,510	55.83	55.83	55.83
25,594	25,594	3.06	3.06	3.06
231,104	231,104	58.89	58.89	58.89

NOTE—a.c.s.r.—Aluminum conductor, steel-reinforced. Weights include steel.

NIAGARA SYSTEM—WOOD-POLE TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

	Wire miles of conductors		Weight in pounds		Miles of single-circuit lines	
Size and material	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930
No. 8 B. & S.G. copper....	32.18	.....	8,494	.....	16.09	.....
No. 9 B. & S.G. copper....	1,082.90	.....	226,326	.....	91.65	.....
No. 10 B. & S.G. copper....	1,120.80	.....	186,053	.....	205.94	.....
No. 11 B. & S.G. copper....	107.68	.....	17,013	.....	53.84	.....
No. 4 copper-clad steel....	12.00	.....	7,440	.....	.....	.....
No. 8 copper-clad steel....	124.40	.....	30,478	.....	.....	.....
No. 14 copper-clad steel....	7.68	.....	468	.....	.....	.....
No. 17 copper-clad steel....	10.88	.....	326	.....	5.44	.....
No. 19 p-i. l-c. cable.....	819.20	.....	112,082	.....	.....	.....
No. 22 p-i. l-c. cable.....	34.00	.....	296,208	.....	.....	.....
No. 12 B.W.G. galv. iron....	11.40	.....	1,881	.....	5.70	.....
No. 12 weather-proof iron...	2.84	.....	886	.....	1.42	.....
6 x .0661 steel, 1 x .0661 alum.	132.00	.....	77,748	.....	66.00	.....
Totals,	3,497.96	.....	965,403	.....	446.08	.....

NOTE—B. & S.G.=Browne & Sharpe gauge.

a.c. s-r.=Aluminum cable, steel-reinforced.

FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS (Excluding 220,000-volt lines)

Miles of double-circuit lines		Miles of 4-circuit lines		Miles of paper-insulated lead-covered copper		Total mileage 1-, 2-, 4-, and mis- cellaneous circuits completed to Oct. 31, 1930
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	
212.80	6.05	.....	.....	.....	16.09
177.23	310.50
.....	383.17
.....	53.84
3.00	3.00
28.36	1.37	.....	.....	.....	29.73
1.92	1.92
.....	5.44
.....	11.16	.....	11.16
.....	0.34	.....	0.34
.....	5.70
.....	1.42
.....	66.00
423.31	7.42	.....	11.50	.....	888.31

NOTE—B.W.G.==Birmingham wire gauge.
p-i. l-c. cable==Paper-insulated lead-covered cable.

THUNDER BAY SYSTEM—WOOD-POLE TELEPHONE
SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under con- struction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under con- struction Oct. 31, 1930
3 x 12 galv. steel.....	13.24	.....	.....	6,554	.....	.....
3 x 13 galv. steel.....	161.04	.....	.....	60,390	.....	.....
No. 6 a.c.s-r.....	18.32	.....	.....	3,517	.....	.....
No. 10 copper-clad steel.	8.50	.....	.....	1,309	.....	.....
Totals.....	201.10	.....	.....	71,770	.....	.....

LINE FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines			Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	
6.62	6.62
80.52	80.52
9.16	9.16
4.25	4.25
100.55	100.55

WOOD AND STEEL-POLE TRANSMISSION AND TELEPHONE LINES

(Excluding High-Voltage Lines)

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
Low-tension lines completed.....	2,556.87	99.03	2,655.90
Low-tension lines under construction.....			
Single-circuit lines completed.....	1,990.08	97.68	2,087.76
Double-circuit lines completed.....	526.85	1.35	528.20
Three-circuit lines completed.....	23.73	.....	23.73
Four-circuit lines completed.....	15.88	.....	15.88
Five-circuit lines completed.....	0.33	.....	0.33
Single-circuit telephone lines completed.....	2,064.50	141.25	2,205.75
Double-circuit telephone lines completed.....	143.66	.....	143.66
Three-circuit telephone lines completed.....	7.54	.....	7.54
STEEL AND WOOD POLES			
Number of poles erected.....	101,059	2,942	104,001
Number of steel poles erected.....	376	.....	376
Number of poles under construction.....	795	.....	795

NOTE—a.c.s.-r. = Aluminum conductor, steel-reinforced.

NIAGARA SYSTEM TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Completed to Oct. 31, 1930
No. 6 a.c. s-r.....	362.14	.....	362.14	69,531	.....	69,531
No. 9 copper.....	58.86	.....	58.86	12,302	.....	12,302
Totals.....	421.00	.....	421.00	81,833	.....	81,833

EASTERN ONTARIO SYSTEM

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors
	Completed to Oct. 31, 1930
3 x .0661 aluminum.....	128.62
4 x .0661 steel.....	
1 x .0661 aluminum.....	99.24
6 x .0661 steel.....	
Totals.....	227.86

GEORGIAN BAY SYSTEM—TELEPHONE LINE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors	
	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
1 x .0661 aluminum and 6 x .0661 steel.....	111.66	111.66
Totals.....	111.66	111.66

FOR 220,000-VOLT LINES**WEIGHT OF CONDUCTORS**

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	
181.07	181.07
29.43	29.43
210.50	29.43

HIGH-VOLTAGE TELEPHONE LINES**WEIGHT OF CONDUCTORS**

Weight in pounds	Miles of single-circuit lines	Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed to Oct. 31, 1930	Completed to Oct. 31, 1930	
40,258	64.31	64.31
39,100	49.62	49.62
79,358	113.93	113.93

FOR HIGH-VOLTAGE TRANSMISSION LINES**WEIGHT OF CONDUCTORS**

Weight in pounds		Miles of single-circuit lines	
Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
43,394	43,394	55.83	55.83
43,394	43,394	55.83	55.83

WOOD AND STEEL-POLE

SUMMARY—

GAUGE, LENGTH AND

Size and material of conductors	Wire miles of conductors			Weight in pounds				Miles of
	Completed to Oct. 31, 1929	Completed Oct. 31, 1299 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	
500,000 c.m. aluminum.....	78.66			195,863			2.50	
345,000 c.m. aluminum.....	215.19			352,266			1.51	
336,400 c.m. aluminum.....	7.26			12,109				
300,000 c.m. aluminum.....	42.30			63,027				
173,000 c.m. aluminum.....	37.29			32,293			1.51	
4/0 alum. (211,600 c.m.).....	771.27			813,130			183.89	
3/0 alum. (167,800 c.m.).....	1,989.18			1,658,974			250.94	
2/0 alum. (133,079 c.m.).....	183.60			122,093			32.68	
1/0 alum. (105,534 c.m.).....	710.85	15.93		373,195	8,363		161.33	
No. 2 alum. (66,373 c.m.).....	342.63			113,067			106.91	
477,000 c.m. a.c.s-r.....	103.80			350,325			34.60	
605,000 c.m. a.c.s-r.....	2.10			8,377			0.70	
336,400 c.m. a.c.s-r.....	140.68	36.12		364,333	100,702		42.36	
125,000 c.m. a.c.s-r.....	233.34			214,672			77.78	
4/0 a.c.s-r (211,600 c.m.).....	368.55	64.95		573,461	101,062		98.51	
3/0 a.c.s-r (167,800 c.m.).....	148.02	90.45		181,619	110,982		27.04	
2/0 a.c.s-r (133,079 c.m.).....	87.84			85,819			33.18	
1/0 a.c.s-r (105,534 c.m.).....	774.96	30.81		605,089	23,908		255.66	
No. 2 a.c.s-r (66,373 c.m.).....	1,186.95	62.13		595,406	30,319		349.60	
No. 4 a.c.s-r (41,742 c.m.).....	57.00			17,442			19.00	
190,000 c.m. copper.....	131.52			416,655			19.82	
173,000 c.m. copper.....	3.75			10,552			1.25	
115,000 c.m. copper.....	73.95			138,212			17.39	
4/0 copper (211,600 c.m.).....	209.55	0.75		719,316	2,575		0.63	
3/0 copper (167,800 c.m.).....	3.36			9,149				
2/0 copper (133,079 c.m.).....	236.91			511,961			35.17	
1/0 copper (105,534 c.m.).....	218.64			373,873			51.08	
No. 1 copper (83,694 c.m.).....	9.00			12,258			3.00	
No. 2 copper (66,373 c.m.).....	63.69			68,720			21.23	
No. 3 copper (52,634 c.m.).....	18.42			15,749			4.80	
No. 4 copper (41,742 c.m.).....	147.87			99,452			20.25	
No. 6 copper (26,250 c.m.).....	104.34			44,344			33.78	
3 x 12 galv. steel (35,643 c.m.)....	36.39			18,013			12.13	
1/4" galv. steel (48,223 c.m.).....	52.50			34,649			17.50	
9/32" galv. steel (62,200 c.m.).....	85.05			71,782			28.35	
7/16" galv. steel (153,200 c.m.).....	32.10			70,331				
5/16" galv. steel (83,200 c.m.).....	424.92			470,809			91.44	
6 galv. iron (41,000 c.m.).....	130.38			80,325			43.46	
Totals.....	9,463.81	301.14		9,898,710	377,911		2,080.98	

NOTE—a.c.s-r=Aluminum cable, steel-reinforced. Weights include steel.

TRANSMISSION LINES

(Excluding High-Voltage Lines)

WEIGHT OF CONDUCTORS

single-circuit lines		Miles of double-circuit lines		Miles of three-circuit lines		Miles of four-circuit lines		Total circuit miles of one, two-, three-, four-circuit lines completed to Oct. 31, 1930	
Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930		
.....	11.86	.....	.....	.....	.....	.....	14.36	
.....	35.11	.....	.....	.....	.....	.....	36.62	
.....	1.21	.....	.....	.....	.....	.....	1.21	
.....	4.70	.....	.....	4.70	
.....	5.46	.....	.....	.....	.....	.....	6.97	
.....	36.60	.....	.....	.....	.....	.....	220.49	
.....	206.06	.....	.....	.....	.....	.....	457.00	
.....	14.26	.....	.....	.....	.....	.....	46.94	
5.31	37.81	.....	.....	.....	.....	.....	204.45	
.....	3.65	.....	.....	.....	.....	.....	110.56	
.....	34.60	
.....	0.70	
9.60	0.60	1.22	.....	.....	.....	.....	53.78	
.....	77.78	
21.65	12.17	.....	.....	.....	.....	.....	132.33	
30.15	11.15	.....	.....	.....	.....	.....	68.34	
.....	0.81	.....	.....	.....	.....	.....	33.99	
10.27	1.03	.....	.....	.....	.....	.....	266.96	
20.45	21.81	0.13	.....	0.81	.....	.....	392.80	
.....	19.00	
.....	12.01	.....	.....	.....	.....	.....	31.83	
.....	1.25	
.....	3.63	.....	.....	.....	.....	.....	21.02	
0.25	2.85	.....	.....	.....	15.88	.....	19.61	
.....	0.56	.....	.....	.....	.....	.....	0.56	
.....	21.90	.....	.....	.....	.....	.....	57.07	
.....	10.90	.....	.....	.....	.....	.....	61.98	
.....	3.00	
.....	0.67	.....	.....	.....	.....	.....	21.23	
.....	14.52	.....	.....	.....	.....	.....	5.47	
.....	0.50	.....	.....	.....	.....	.....	34.77	
.....	34.28	
.....	12.13	
.....	17.50	
.....	28.35	
.....	5.35	.....	.....	.....	.....	.....	5.35	
.....	25.10	.....	.....	.....	.....	.....	116.54	
.....	43.46	
97.68	497.58	1.35	5.51	15.88	2,698.98

This sheet is based on route and wire miles.

TELEPHONE

ERECTED ON WOOD-POLE LINES

GAUGE, LENGTH AND WEIGHT OF ALUMINUM,

Size and material	Wire miles of conductors				Weight in	
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930
No. 9 B. & S.G. copper	353.22	44.78	.....	398.00	73,823	9,359
No. 10 B. & S.G. copper	189.04	.....	.....	189.04	31,381	.....
No. 8 B. & S.G. c-c steel	181.14	.....	.....	181.14	44,379	.....
No. 10 B. & S.G. c-c steel	934.08	3.96	.....	938.04	143,848	610
No. 17 B. & S.G. c-c steel	8.12	.....	.....	8.12	244	.....
No. 6 B.W.G. galv. iron	15.20	.....	.....	15.20	8,710	.....
No. 8 B.W.G. galv. iron	1.42	.....	.....	1.42	537	.....
No. 9 B.W.G. galv. iron	1,739.04	.....	.....	1,739.04	530,407	.....
No. 10 B.W.G. galv. iron	73.08	.....	.....	73.08	18,270	.....
No. 12 B.W.G. galv. iron	111.54	.....	.....	111.54	18,404	.....
No. 6 a.c.s-r	653.32	95.22	.....	748.54	125,437	18,282
3 x .0661 alum. and 4 x .0661 steel	16.72	26.88	.....	43.60	5,233	8,413
3 x 12 galv. steel	88.88	.....	.....	88.88	43,729	.....
3 x 13 galv. steel	64.96	.....	.....	64.96	24,685	.....
Totals	4,429.76	170.84	.....	4,600.60	1,069,087	36,664

NOTE—For telephone lines generally on wood poles and serving 220,000 and 110,000 power lines see separate table.

P-i. l-c cable=Paper insulated, lead-covered cable.

c-c steel=Copper-clad steel. a.c.s-r=Aluminum cable, steel reinforced.

LINES

CARRYING POWER CONDUCTORS

COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

pounds		Miles of single-circuit lines		Miles of double-circuit lines				Single and double-circuit totals completed to Oct. 31, 1930
Under construction Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	
.....	83,182	165.35	22.39	.....	5.63	.....	.....	193.37
.....	31,381	94.52	.....	.....	.....	.....	.....	94.52
.....	44,379	90.57	.....	.....	.....	.....	.....	90.57
.....	144,458	467.04	1.98	.....	.....	.....	.....	469.02
.....	244	4.06	.....	.....	.....	.....	.....	4.06
.....	8,710	7.60	.....	.....	.....	.....	.....	7.60
.....	537	0.71	.....	.....	.....	.....	.....	0.71
.....	530,407	869.52	.....	.....	.....	.....	.....	869.52
.....	18,270	36.54	.....	.....	.....	.....	.....	36.54
.....	18,404	55.77	.....	.....	.....	.....	.....	55.77
.....	143,719	230.02	47.61	.....	48.32	.....	.....	325.95
.....	13,646	8.36	13.44	.....	.....	.....	.....	21.80
.....	43,729	44.44	.....	.....	.....	.....	.....	44.44
.....	24,685	32.48	.....	.....	.....	.....	.....	32.48
.....	1,105,751	2,106.98	85.42	.....	53.95	.....	.....	2,246.35

B. & S.G. = Browne & Sharpe Gauge.

B.W.G. = Birmingham wire gauge.

APPENDIX III

DISTRIBUTION LINES AND SYSTEMS

Summaries of Data respecting Rural Distribution Systems,
Distribution Feeders, Metering Stations, Distributing
Stations and Distributing Systems constructed by the
Hydro-Electric Power Commission.

Below is shown in tabular and descriptive form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1930.

This work includes the construction of rural distribution systems, the installation of feeders to supply urban municipalities and the construction of metering equipments.

Work in connection with distribution systems was done by the Commission for certain municipalities, private companies, etc., at the request and at the expense of the parties concerned.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1929		At October 31, 1930	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Niagara system.....	4,058.9	29,412	5,196.7	34,723
Georgian Bay system—				
Severn district.....	64.5	848	177.8	1,471
Eugenia district.....	52.3	276	62.5	320
Wasdells district.....	110.3	589	171.9	1,002
Muskoka district.....	14.8	122	28.2	180
Bala district.....			15.4	99
Eastern Ontario system—				
Central Ontario district.....	288.8	2,671	592.0	4,009
St. Lawrence district.....	126.3	797	300.7	1,880
Rideau district.....	37.8	186	51.2	272
Madawaska district.....			9.1	8
Ottawa district.....	77.5	516	116.5	626
Northern Ontario system—				
Nipissing district.....	4.5	167	4.5	192
Totals.....	4,835.7	35,584	6,726.5	44,782

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton.....	N5D1	1.8	7	3.0	7
Ailsa Craig.....	N4D7	.....	.....	0.6	2
Alvinston.....	N18D9	2.5	4	2.5	4
Amherstburg.....	N15D3	53.0	465	55.5	516
Aylmer.....	N11D2	81.0	458	96.3	521
Ayr.....	N12D4	9.7	46	20.3	66
Baden.....	N7D1	53.7	260	79.6	337
Beamsville.....	N1D4	105.0	724	129.0	829
Belle River.....	N15D2	36.5	295	43.4	327
Blenheim.....	N14D3	42.0	245	46.8	262
Bond Lake.....	N3D3	87.1	958	121.8	1,143
Bothwell.....	N14D10	30.0	99	30.8	110
Brampton.....	N13D2	47.5	156	48.2	192
Brant.....	N12D1	71.0	378	80.9	432
Brigden.....	N18D8	22.9	72	31.4	96
Burford.....	N12D2	15.7	122	34.5	180
Caledonia.....	N2D5	46.0	231	67.0	314
Chatham.....	N14D1	106.0	646	120.0	708
Chippawa.....	N1D7	12.2	113	12.2	119
Clinton.....	N8D11	45.1	196	50.0	287
Delaware.....	N4D3	90.9	497	116.3	591
Dorchester.....	N4D1	95.8	486	104.9	529
Dresden.....	N14D12	1.8	13	20.0	63
Drumbo.....	N12D5	24.5	177	40.5	215
Dundas.....	N2D1	69.1	494	85.8	595
Dunnville.....	N1D9	1.2	12	6.7	40
Dutton.....	N11D3	25.2	99	30.7	134
Elmira.....	N7D3	5.2	35	16.4	66
Elora.....	N5D4	10.0	132	25.0	158
Essex.....	N15D7	61.5	317	73.6	397
Exeter.....	N4D6	54.7	452	60.0	504
Forest.....	N8D6	9.7	30	22.8	70
Galt.....	N6D2	22.7	200	26.7	233
Georgetown.....	N5D2	32.7	157	38.2	186
Goderich.....	N8D2	4.2	37	22.0	100
Grantham.....	N1D2	48.2	468	47.5 ^(a)	473
Guelph.....	N5D3	56.5	222	81.4	460
Haldimand.....	N2D8	11.7	78	28.9	162
Harriston.....	N8D5	2.2	7	7.0	37
Harrow.....	N15D4	48.0	429	64.4	516
Ingersoll.....	N10D3	114.9	420	147.6	522
Jordan.....	N1D3	24.5	228	29.2	258
Keswick.....	N3D5	21.0	668	31.4	754
Kingsville.....	N15D5	95.6	1,048	114.3	1,217
Listowel.....	N8D8	27.2	151	41.6	216

(a) 2.5 miles transferred to Jordan rural power district.

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

NIAGARA SYSTEM—Continued

London.....	N4D2	150.5	1,612	177.0	1,798
Lucan.....	N4D5	27.3	100	32.7	112
Lynden.....	N2D2	41.0	200	42.1	200
Markham.....	N3D1	76.0	515	88.9	632
Merlin.....	N14D15	37.6	156	50.4	181
Milton.....	N13D3	34.0	214	37.6	240
Milverton.....	N8D9	15.0	73	19.1	92
Mitchell.....	N8D7	31.5	191	52.5	292
Newmarket.....	N3D4	21.0	206	40.8	250
Niagara.....	N1D1	41.0	239	43.3	259
Norwich.....	N10D1	76.9	364	85.6	397
Oil Springs.....	N18D3	12.8	86	14.9	91
Palmerston.....	N8D6	0.2	10	23.8	69
Petrolia.....	N18D5	3.7	22	13.7	54
Preston.....	N6D1	110.5	701	124.9	842
Ridgetown.....	N14D2	88.8	580	93.2	634
St. Marys.....	N9D1	64.7	219	90.0	266
St. Jacobs.....	N7D2	30.5	220	54.9	298
St. Thomas.....	N11D1	116.5	911	132.0	977
Saltfleet.....	N17D1	77.1	883	81.0	952
Sandwich.....	N15D1	109.6	1,921	119.3	2,048
Sarnia.....	N18D4	78.5	974	83.0	1,033
Scarboro.....	N3D2	47.2	348	62.9	464
Seaforth.....	N8D10	6.0	113	7.3	124
Simcoe.....	N12D6	29.5	179	36.6	226
Stamford.....	N1D6	10.6	282	12.2	287
Stratford.....	N8D4	30.5	202	34.1	231
Strathroy.....	N4D4	11.7	69	62.2	169
Streetsville.....	N13D1	80.0	281	90.9	349
Tavistock.....	N8D1	56.0	220	68.5	269
Thamesville.....	N14D11	22.1	132	47.0	183
Tilbury.....	N14D14	24.4	114	33.9	147
Tillsonburg.....	N10D4	90.9	467	101.0	516
Wallaceburg.....	N14D13	50.9	384	74.5	421
Walsingham.....	N12D7	17.0	112	44.5	235
Walton.....	N8D3	22.5	164	28.4	173
Waterdown.....	N2D3	27.2	267	31.2	311
Waterford.....	N12D3	32.6	129	48.7	198
Watford.....	N18D7	1.3	0	17.0	49
Welland.....	N1D5	166.0	1,955	238.1	2,224
Woodbridge.....	N16D1	147.8	718	180.5	898
Woodstock.....	N10D2	113.0	547	119.8	584

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
SEVERN DISTRICT					
Alliston.....	S32D1	6.5	0	20.0	120
Barrie.....	S4D1	13.3	114	35.3	274
Beeton.....	S33D1	0.3	1	0.3	1
Bradford.....	S37D1	0.7	3	0.7	3
Buckskin.....	S24D1	0.9	13	0.9	15
Creemore.....	S10D2	.....	.....	8.8	0
Elmvale.....	S7D1	0.0	22	23.3	107
Hawkestone.....	S9D1	.....	.....	21.9	104
Innisfil.....	S31D1	21.6	214	26.0	262
Medonte.....	S18D1	.....	.....	2.2	18
Midland.....	S1D1	.....	.....	9.7	34
Nottawasaga.....	S5D1	7.8	85	7.8	87
Thornton.....	S36D1	.....	.....	7.5	31
Wasaga Beach*.....	S10D1	13.4	396	13.4	415
EUGENIA DISTRICT					
Arthur.....	E13D2	.....	.....	0.4	3
Chatsworth.....	E3D1	0.0	19	0.0	21
Flesherton.....	E1D1	1.6	17	1.6	32
Holstein.....	E7D1	.....	.....	0.0	1
Lucknow.....	E24D1	0.1	2	0.1	2
Markdale.....	E1D2	1.0	2	1.0	2
Meaford.....	E14D1	0.8	2	0.8	2
Neustadt.....	E8D1	0.3	1	0.3	1
Orangeville.....	E12D1	8.7	27	10.9	27
Ripley.....	E24D1	0.0	2	0.4	2
Shelburne.....	E10D1	2.4	10	2.4	11
Tara.....	E15D1	21.5	86	23.5	98
Walkerton Quarry.....	E26D1	1.6	5	1.6	5
Wroxeter.....	E23D1	14.3	103	19.5	113
WASDELLS DISTRICT					
Beaverton.....	W2D1	.....	.....	2.8	21
Cannington No. 1.....	W3D1	3.8	22	3.8	24
Cannington No. 2.....	W3D2	4.2	20	4.7	22
Georgina.....	W2D2	9.5	81	10.0	85
Mariposa.....	W9D1	30.4	182	42.8	277
Port Perry.....	W12D1	24.6	84	42.6	260
Sparrow Lake.....	W1D1	18.6	132	18.6	144
Uxbridge.....	W11D1	19.2	68	46.6	169
MUSKOKA DISTRICT					
Beaumaris.....	M7D1	14.8	122	18.5	131
Utterson.....	M8D1	.....	.....	9.7	49
BALA DISTRICT					
Bala.....	GB13D1	.....	.....	15.4	99

*Was Stayner R.P.D.

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
EASTERN ONTARIO SYSTEM					
CENTRAL ONTARIO DISTRICT					
Belleville.....	C38D1	42.0	357	63.1	531
Bowmanville.....	C23D1	1.6	7	16.7	26
Brighton.....	C6D1			5.5	30
Campbellford.....	C11D1	15.4	51	17.5	60
Cobourg.....	C13D1	57.0	263	62.0	275
Colborne.....	C7D1	10.0	72	21.5	111
Deseronto.....	C42D1			0.3	1
Kingston.....	C44D1	26.8	94	58.7	301
Lakefield.....	C18D1	0.0	1	0.0	1
Lindsay.....	C29D1			0.6	2
Madoc.....	C33D1				
Marmora.....	C47D1				
Millbrook.....	C25D1			11.7	61
Napanee.....	C43D1	9.75	11	47.5	128
Newcastle.....	C22D1	13.5	28	18.6	106
Norwood.....	C31D1	3.5	30	3.9	38
Oshawa.....	C24D1	53.8	643	60.6	743
Peterborough.....	C20D1	30.0	804	47.0	874
Pickering.....	C24D2	12.3	141	13.8	174
Port Hope.....	C16D1	10.0	34	16.7	88
Stirling.....	C35D1	1.2	3	26.7	100
Trenton.....	C3D1	1.5	26	39.7	171
Warkworth.....	C49D1			0.4	3
Wellington.....	C45D1	0.5	8	59.5	185
ST. LAWRENCE DISTRICT					
Alexandria.....	L15D1	2.1	0	8.1	48
Brockville.....	L3D1	37.6	236	69.3	468
Chesterville.....	L5D1	33.6	235	46.5	368
Iroquois.....	L9D1			80.0	391
Martintown.....	L13D1	11.5	98	16.3	112
Maxville.....	L14D2	0.0	2	40.3(a)	269(a)
Prescott.....	L2D1	25.4	125	29.5	164
Williamsburg.....	L7D1	5.6	18	10.7	60
RIDEAU DISTRICT					
Smiths Falls.....	H3D1	37.8	186	48.7	272
Kemptville.....	H9D1			2.5	0
MADAWASKA DISTRICT					
Arnprior.....	QM10D1			3.6	0
Renfrew.....	QM16D1			5.5	8
OTTAWA DISTRICT					
Nepean.....	T1D1	77.5	516	116.5	626
NORTHERN ONTARIO SYSTEM					
NIPISSING DISTRICT					
North Bay.....	Z4D1	4.5	167	4.5	192

(a) 10.5 miles and 83 consumers transferred from Apple Hill R.P.D.

DISTRIBUTION FEEDER CONSTRUCTION

During the year ending October 31, 1930, the following work was carried on in connection with distribution feeders.

N 248 x 14—Dundas R.P.D. Distributing Station to Ancaster.

Capital in this line was transferred from N.C.R. (Ancaster Twp.) as of January 1, 1930.

N 352 x 21—Mount Joy Distributing Station to Stouffville.

Three Booster transformers were erected on this line and placed in service on November 29, 1929.

N 465 x 3—Glendale Distributing Station to Lambeth.

A new 4,000/2,300-volt feeder line was strung on N 465 x 63 transmission line poles a distance of 3.5 miles, and 1.30 miles of 2,300-volt, single-phase rural line was removed and existing rural transformers connected to the feeder line. Work was completed October 30, 1930.

N 1419 x 21—Newbury Junction to Wardsville.

This line was changed from single phase to three phase and placed in service on October 26, 1930.

N 1434 x 91—Blenheim Distributing Station to Erieau.

This line was changed from two phases to three phase and placed in service on December 14, 1929.

M 8 x 802—Utterson Distributing Station to Windermere.

A new 8,000/4,600-volt line was constructed to supply the village of Windermere from the Utterson distributing station. The line is 12.5 miles long and was placed in service June 30, 1930.

GB 13 x 1362—Bala Distributing Station to Butterfly Junction.

This line was reconditioned. Work was completed on May 31, 1930.

GB 1362 x 32—Butterfly Junction to Port Carling.

This line was reconditioned. Work was completed on June 21, 1930.

GB 1362 x 36—Butterfly Junction to MacTier.

This line was reconditioned. Work was completed on June 21, 1930.

STATIONS CONSTRUCTED

Station	Property number	Date work was completed	Transforming or measuring power for
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NIAGARA SYSTEM

Goderich R.P.D.	N8D32	Sept. 25, 1930	Goderich R.P.D. (Part).
Wallaceburg R.P.D.	N14D43	May 31, 1930	Wallaceburg R.P.D.
Clifford.	N844	May 8, 1930	Clifford.
Campbellville. ^a	N1347	Mar. 15, 1930	Campbellville.
Newbury. ^f	N1449	Oct. 29, 1930	Newbury.
Glencoe. ^b	N1450	Oct. 29, 1930	Glencoe.
Wardsville. ^c	N1451	Oct. 26, 1930	Wardsville.
Dominion Petroleum Co. ^d	N1459	Oct. 26, 1930	Dominion Petroleum Co.
Erieau. ^e	N1492	Apr. 1, 1930	Erieau.
Tecumseh.	N1536	Apr. 12, 1930	Tecumseh.

a Chang from single to three phase. *b* Change from 4,000/2,300-volt to 8,000/4,600-volt.
c Change from 2,300-volt to 4,600-volt. *d* Three 5 k.v.a. 4,600/550-volt transformers replace customer's transformers. *e* Change from 2 to 3 phase. *f* Change from 2,300-volt to 4,600-volt.

GEORGIAN BAY SYSTEM

SEVERN DISTRICT			
Hawkestone R.P.D.	S9D31	Aug. 1, 1930	Hawkestone R.P.D.
Alliston R.P.D.	S32D31	Jan. 21, 1930	Alliston R.P.D. (Part).
Alliston R.P.D.	S32D31	Mar. 4, 1930	Alliston R.P.D. (Part).
Thornton R.P.D.	S36D31	Oct. 16, 1930	Thornton R.P.D.
WASDELLS DISTRICT			
Port Perry R.P.D.	W12D32	Jan. 15, 1930	Port Perry R.P.D. (Part).
MUSKOKA DISTRICT			
Windermere.	N832	Aug. 26, 1930	Windermere.
BALA DISTRICT			
Hamills.	GB15	July 11, 1930	Bala R.P.D.

EASTERN ONTARIO SYSTEM

CENTRAL ONTARIO DISTRICT			
Trenton R.P.D.	C3D31	Oct. 18, 1930	Trenton R.P.D. (Part).
Peterborough R.P.D. ^a	C20D31	Jan. 17, 1930	Peterborough R.P.D. (Part).
Peterborough R.P.D. ^b	C20D31	June 12, 1930	Peterborough R.P.D. (Part).
Newcastle R.P.D.	C22D31	Apr. 22, 1930	Newcastle R.P.D. (Part).
Newcastle R.P.D.	C22D31	Sept. 6, 1930	Newcastle R.P.D. (Part).
Millbrook R.P.D.	C25D31	July 4, 1930	Millbrook R.P.D. (Part).
Newburgh.	C4332	Aug. 30, 1930	Newburgh.
Strathcona Paper Co. ^c	C4333	Nov. 1, 1929	Strathcona Paper Co.
ST. LAWRENCE DISTRICT			
Chesterville R.P.D.	L5D31	Mar. 16, 1930	Chesterville R.P.D. (Part).
Maxville R.P.D.	L14D32	Feb. 8, 1930	Maxville R.P.D. (Part).
Alexandria R.P.D.	L15D31	Feb. 11, 1930	Alexandria R.P.D. (Part).

a 3-75 K.v.a. 2,300/4,600-volt transformers installed.
b 3-100 K.v.a. 2,300/4,600-volt transformers installed.
c Transfer from Newburgh distribution system.

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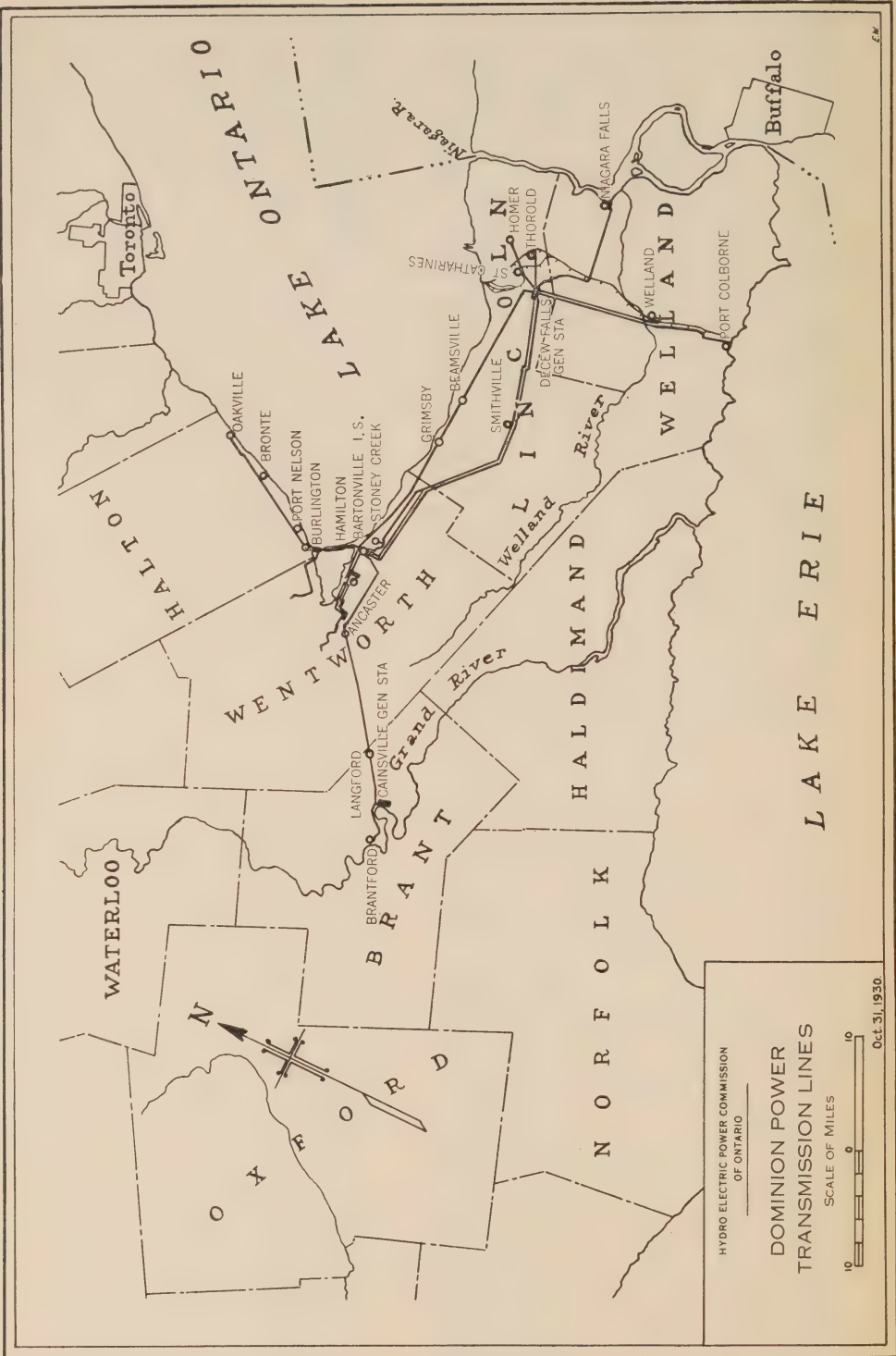
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